

**2010 REMEDIATION PROGRESS REPORT
COOPERVISION, INC.
711 NORTH ROAD
SCOTTSVILLE, NEW YORK
VCA #V00175-8**

by

**Haley & Aldrich of New York
Rochester, New York**

for

**New York State Department of Environmental Conservation
Avon, New York**

**File No. 70665-018
24 January 2011**



24 January 2011
File No. 70665-018

New York State Department of Environmental Conservation
Division of Environmental Remediation - Region 8
6274 East Avon-Lima Road
Avon, New York 14414

Attention: Mr. Frank Sowers, P.E.

Subject: 2010 Remediation Progress Report
711 North Road
Scottsville, New York
VCA #V00175-8

Dear Mr. Sowers:

This letter constitutes the twelfth Remediation Progress Report under the Voluntary Cleanup Agreement (VCA) between CooperVision, Inc. and the New York State Department of Environmental Conservation (NYSDEC) for the above referenced site's ("Site") remediation operation and maintenance. This is the final Remediation Progress Report for the Site. A Release and Covenant not to Sue was issued for the Site on 29 November 2010. Subsequent Periodic Review Reports will be prepared annually in accordance with the NYSDEC-approved June 2010 Revised Site Management Plan (SMP) commencing in January 2012, per NYSDEC correspondence dated 9 December 2010.

ACTIVITIES PERFORMED DURING THE PAST 12 MONTHS

The following activities were conducted at the Site during 2010:

- Two groundwater sampling events were conducted on 21 April 2010 and 18 and 19 October 2010. The samples were collected and analyzed in accordance with the June 2010 Revised SMP. Copies of the analytical results are attached in Appendix A and summarized in Tables I through IV. Groundwater contours are shown on Figure 1 and Figure 2. The 2010 results as well as historical results were analyzed statistically for trend using the Mann-Kendall Analysis. The results are described below and included in Appendix B.
- The Revised Final Engineering Report (which encompassed the April 2002 Preliminary Report on Remedial Activities and applicable revisions) and the Revised SMP for the Site were submitted in June 2010 and subsequently approved by the NYSDEC. Following approval, NYSDEC issued a 29 November 2010 Release and Covenant not to Sue. Relevant NYSDEC correspondence is included in Appendix C.
- A request to repair a site well in advance of the spring field work was submitted to and approved by the NYSDEC. Well cluster OWS-302S and OWS-302D was overdrilled and re-installed as a single 2-inch well, OWS-302S on 31 March 2010. Drilling was conducted by Nothnagle Drilling of Scottsville, NY. Following installation, the well was developed. Drill cuttings were collected

in four drums and staged onsite. The drums was removed and transported to EQ Detroit as non-hazardous waste on 19 May 2010 per analytical results and Contained-In Determination approval. Analytical data is included in Appendix A; the well monitoring report for OWS-302S included in Appendix D; and waste documentation information is included in Appendix E.

- On 21 July 2010, CooperVision personnel observed a fan failure associated with the site Sub-Slab Depressurization System (SSDS). A new fan was installed on 3 August 2010. Following installation, a vacuum reading was taken, which measured 3.7 inches of water. No further action was required. Maintenance documentation is included in Appendix F.
- The SSDS was evaluated on 19 October 2010 by Haley & Aldrich and Mitigation Tech. The evaluation included vacuum testing of existing test points located within the facility. Overall, the system operation and monitoring results indicated acceptable performance. Leaks and/or other system concerns were not observed. Vacuum testing results are included in Table V. Mitigation Tech's evaluation report is included in Appendix F.

REVIEW OF SAMPLING RESULTS

Below is a summary from the April and October 2010 sampling events. Updated summary tables, associated time series charts, groundwater contours, and laboratory analytical reports are attached.

Overall, the data appear consistent with previous sampling events. The following paragraphs describe specific results:

Source Area (Refer to Table 1 and Table 4)

Wells in the source area (MW-205 and OWS-302S) continue to show evidence that biological degradation continues to be active as described below:

- 1,1,1-TCA was detected in MW-205 during both sampling events. The sampling results indicate an increase in 1,1,1-TCA in this well and it is anticipated that it may increase at times as a result of desorption into the aquifer, and an increase is not necessarily indicative of a rebound of contamination in the source area. 1,1,1-TCA was not detected in OWS-302S.
- 1,1-DCA continues to be detected in well MW-205 at levels consistent with previous sampling events. These conditions indicate that this compound is not "stacking" within the aquifer and appears to be degrading completely. 1,1-DCA was detected in April 2010 in well OWS-302S at a level higher than previously seen, however the level of 1,1-DCA decreased again to a level seen more consistently during recent events in October 2010. It is noted that this well is a newly drilled version of the previously sampled OWS-302S.
- Chloroethane continues to be detected in OWS-302S. In addition chloride ion, a completion product (see below) was detected during both sampling events. This ion could not previously be sampled due poor aquifer recovery prior to reinstallation of the well. As with previous sampling events, chloroethane, the daughter product of 1,1-DCA has not been detected in MW-205, though this is likely due to possible detections being "masked" by high laboratory detection limits. Both chloride

ion and ethane were detected in MW-205, which are the completion products of the reductive dechlorination process for 1,1,1-TCA as shown below:

Dechlorination of 1,1,1-Trichloroethane:



- Metabolic acids continue to be present in significant amounts in MW-205 indicating that the Hydrogen Release Compound continues to effectively liberate hydrogen into the groundwater for enhancement of the biodegradation processes. Metabolic acids were not analyzed for the other wells.
- Also notable in the source area is continued high aquifer alkalinity, as well as the low redox values. The low redox values indicate that aquifer conditions continue to be anaerobic in the source area, which is conducive to reductive dechlorination.

Mid-gradient Area (Refer to Table 2 and Table 4)

Overall, mid-gradient conditions are steady and are similar to recent groundwater monitoring events.

- 1,1,1-TCA was not detected in the mid-gradient wells sampled.
- In the mid-gradient area, 1,1-DCA concentrations continue to decline in the wells with detectable concentrations. 1,1-DCA continued to not be detected in MW-502.
- Chloroethane, the breakdown product of 1,1-DCA, continues to be present in the sampled wells, most notably in MW-502, where it has been increasing since April 2009. Ethane was not detected in mid-gradient wells during this sampling event, though chloride ion was detected in the wells in which it was sampled. Ethane is highly volatile, and concentrations of ethane can be difficult to quantify. The chloroethane and chloride ion detections are indicators that reductive dechlorination is continuing to move towards completion.

Down-gradient Area (Refer to Table 3)

Overall, down-gradient conditions are steady and are similar to recent groundwater monitoring events.

- 1,1,1-TCA concentrations were not detected above laboratory reporting limits in the downgradient wells sampled, with the exception of in MW-204 during October 2010, when it was detected near the detection limit and slightly above groundwater standards.
- 1,1-DCA and 1,1-DCE were detected in wells MW-202 and MW-204 in April 2010 and in MW-204 in October 2010 at concentrations slightly higher than groundwater standards. A slight increase in these compounds was noted.
- Chloroethane was not detected in the down-gradient wells.

- VOCs were not detected above laboratory reporting limits in MW-306 (newly sampled beginning April 2010) nor in MW-202 in October 2010. It is noted that the October 2010 MW-202 samples was analyzed with a 10-times dilution, which may have masked low level detections. We requested that the laboratory re-submit the results for MW-202 using the method detection limit. All analytes were reported as not detected.

Mann-Kendall Trend Analysis

The April and October 2010 sampling events in conjunction with the previous 16 sampling events (broken out by season) were analyzed using the Mann-Kendall statistical analysis for trend. Refer to Appendix B for the analysis results sheets.

In summary, most wells showed either no trend or a decreasing trend (MW-3 & MW-501). An increasing trend was noted in MW-202 for 1,1-DCA for the Spring event only, but reverted to “No Trend” with the non-detect result observed in the Fall sample event. Note that one half the non-diluted laboratory detection limit (5 ug/L) was used for the Fall MW-202 results in lieu of the method detection limit as reported in the data (Appendix A) in order to maintain consistency.

For the spring event, a slight increase 1,1-DCA was noted in MW-202; however the detections continue to be close to the groundwater standard/detection limit and do not appear indicative of plume expansion.

In summary, results of the 2010 sampling indicate dechlorination remains ongoing, and as supported by past results, is not indicative of plume expansion.

SUB-SLAB DEPRESSURIZATION SYSTEM MONITORING

The sub-slab depressurization system continues to be monitored weekly by CooperVision staff. They record the system fans’ vacuum readings and record on a Maintenance Form. This data is either stored onsite or sent off-site by CooperVision for permanent storing at a document storage facility. Copies can be obtained if required. On 21 July 2010, CooperVision personnel observed a fan failure of fan F-5. A new fan was obtained from Mitigation Tech and installed on 3 August 2010. Following installation, a vacuum reading was taken, which measured 3.7 inches of water. No further action was required. Maintenance documentation is included in Appendix F.

The system was evaluated on 19 October 2010 by Haley & Aldrich and Mitigation Tech. The evaluation included vacuum testing of existing test points located within the facility. Overall, the system operation appeared to be acceptable. Leaks and/or other system concerns were not observed. The sub-slab vacuum levels were above the design criteria of 0.002 inches of water, except in the switchgear room. This was noted during the initial installation and is caused by the negative pressure created by the facility’s vacuum pumps located in this room. Vacuum testing results are included in Table V and shown on Figure 3. Mitigation Tech’s evaluation report is included in Appendix F.

Sincerely yours,
HALEY & ALDRICH OF NEW YORK



Claire L. Mondello
Staff Environmental Scientist



Mark N. Ramsdell, P.E.
Senior Engineer



Vincent B. Dick
Vice President

Enclosures:

- Table I – Summary of Volatile Gases and Dissolved Gases – Source Area Wells
- Table II – Summary of Volatile Gases and Dissolved Gases – Mid-Gradient Wells
- Table III – Summary of Volatile Gases and Dissolved Gases – Down-Gradient Wells
- Table IV – Additional Analytical Parameter Summary
- Table V – Annual SSD System Monitoring Results
- Figure 1 – Groundwater Contour Plan – April 2010
- Figure 2 – Groundwater Contour Plan – October 2010
- Figure 3 – Sub-Slab Depressurization Annual Vacuum Readings – October 2010
- Appendix A – Laboratory Analytical Reports
- Appendix B – Mann-Kendall Analysis Results
- Appendix C – NYSDEC Correspondence
- Appendix D – Monitoring Well Installation Report
- Appendix E – Waste Documentation
- Appendix F – SSD System Maintenance and Monitoring Documentation

G:\Projects\70665\018 - Ongoing Support\Periodic Review Reports\January 2011\2011_0124_2010 Remediation Progress Report_F.docx

TABLE I
COOPERVISION, INC.
SUMMARY OF VOLATILE GASES AND DISSOLVED GASES
SOURCE AREA WELLS

All values expressed in mg/L (ppm)

Sample ID: Well Screen Interval (ft):	OWS-302S 13.0 - 14.0																										
Date Sampled:	6/1/99	6/1/99 DEC SPLIT	4/28/00	7/19/01	10/18/01	1/30/02	4/9/02	7/31/02	10/16/02	1/28/03	4/7/03	10/30/03	4/8/04	10/27/04	4/8/05	10/12/05	5/16/06	10/17/06	4/24/07	11/15/07	4/30/08	10/16/08	4/23/09	10/20/09	4/21/10	10/18/10	
Compound:																											
VOLATILE ORGANICS																											
Acetone	ND	1.8 B	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2000x Dil.	1000x Dil.	250x Dil.	250x Dil.	100x Dil.	200x Dil.	200x Dil.	500x Dil.	500x Dil.	500x Dil.	500x Dil.
1,1-Dichloroethane	49	61 D	390	180 D	200 D	370 D	390	270	360	330	300	220	250	230	240	140	37 D	27	1	0.52	1.4	0.81	2.9	ND	56	10	
1,1-Dichloroethene	ND	0.022 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,1,1-Trichloroethane	ND	0.94	ND	4	2.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Trichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Chloroethane	ND	0.056 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	130	19 D	38	18	25 D	38	34 D	62	73	30	74	
1,2-Dichloroethane	ND	0.02 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Methylene Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2-Butanone (MEK)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Vinyl Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,4-Dioxane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SEMI-VOLATILE ORGANICS																											
Bis(2-ethylhexyl) phthalate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
DISSOLVED GASES																											
Methane	NA	NA	NA	DRY	ND	0.002	NA	0.0063	NA	0.0016	0.031	0.0086	0.003	0.01	0.0068	0.016	0.0042	0.055	1.7	0.17	0.0074	DRY	0.83	3.1	0.93	1.3	
Ethane	NA	NA	NA	DRY	0.0079	ND	NA	0.03	NA	0.0034	0.05	0.001	0.0084	0.029	0.0036	0.013	0.0013	0.014	ND	0.0085	0.0018	DRY	ND	ND	ND	ND	
Ethene	NA	NA	NA	DRY	0.0075	ND	NA	0.022	NA	0.0025	0.049	0.0071	0.0048	0.37	0.0022	0.0089	ND	0.0069	ND	0.0033	0.0023	DRY	ND	ND	ND	ND	

Notes & Abbreviations:

ND: Not Detected

NA: Not Analyzed

DRY: Insufficient Recharge

D: Diluted Result

J: Estimated Result

B: Blank Contamination

1. The tables represent all data as reported from the lab in concentration format (mg/L).

2. The time-trend graphs concentrations have been converted to mmol/L to provide better stoichiometric representation of relative mass of parent (TCA) to daughter (DCA, chloroethane, etc.) compounds. Also note that scale varies between graphs in order to depict ranges of values for each well.

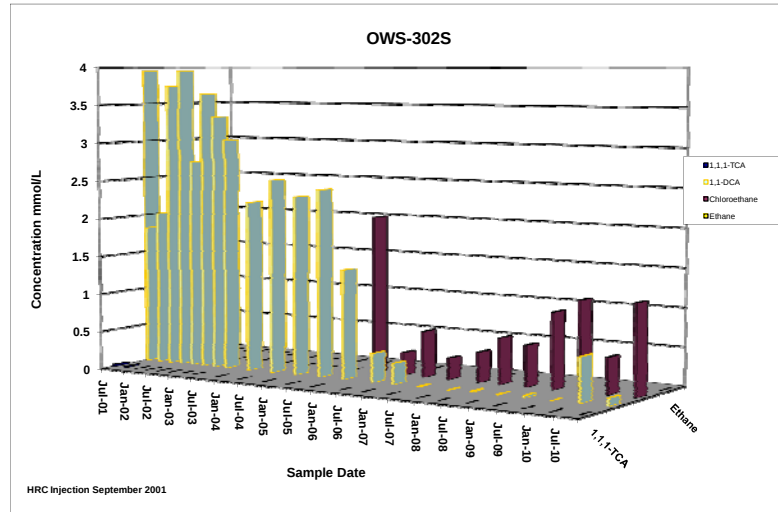


TABLE I
COOPERVISION, INC.
SUMMARY OF VOLATILE GASES AND DISSOLVED GASES
SOURCE AREA WELLS

All values expressed in mg/L (ppm)

Sample ID: Well Screen Interval (ft):	MW-205 21.2 - 28.0																										
Date Sampled:	7/10/97	6/2/99	4/28/00	7/19/01	10/18/01	1/29/02	4/9/02	7/31/02	10/15/02	1/29/03	4/7/03	10/29/03	4/6/04	4/6/04 DEC split	10/28/04	4/8/05	10/11/05	5/16/06	10/18/06	4/25/07	11/15/07	4/30/08	10/16/08	4/24/09	10/21/09	4/21/10	10/18/10
Compound:																											
VOLATILE ORGANICS	2000x Dil 2000x Dil																										
Acetone	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	153	190 D	NA	180 D	160 D	240	290	260	260	230	290	210	200 D	180	230	240	230	220	270	230	390	200	200	200	200	230 D	220
1,1-Dichloroethene	ND	ND	NA	2.6	ND	ND	ND	ND	ND	ND	ND	ND	1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	421	480 D	NA	260 D	180 D	300	300	280	260	200	320	250	140 D	150	100	76	80	57	62	41	84	42	57	48	99	140	160
Tetrachloroethene	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.075	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dioxane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.009	0.008	NA	ND	NA	NA	NA	NA	NA	NA	ND	NA	ND	NA	NA
SEMI-VOLATILE ORGANICS																											
Bis(2-ethylhexyl) phthalate	NA	0.016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DISSOLVED GASES																											
Methane	NA	NA	NA	0.005	0.0053	0.0052	NA	0.0062	0.0057	0.0014	0.022	0.0057	0.0013	NA	0.0064	0.0062	0.0098	0.011	0.013	0.019	0.033	0.014	0.022	0.014	0.010	0.011	0.006
Ethane	NA	NA	NA	0.01	0.0084	0.0069	NA	0.0098	0.0086	0.0012	0.013	0.0038	0.006	NA	0.0059	0.007	0.012	0.016	0.017	0.019	0.026	0.019	0.023	0.020	0.012	0.013	0.006
Ethene	NA	NA	NA	0.0029	0.0024	0.002	NA	0.0026	0.0023	0.004	0.0048	0.0021	0.0028	NA	0.0048	0.0051	0.012	0.012	0.014	0.013	0.016	0.012	0.02	0.015	0.011	0.012	0.0062

Notes & Abbreviations:

ND: Not Detected
NA: Not Analyzed
DRY: Insufficient Recharge
D: Diluted Result
J: Estimated Result
B: Blank Contamination

1. The tables represent all data as reported from the lab in concentration format (mg/L).

2. The time-trend graphs concentrations have been converted to mmol/L to provide better stoichiometric representation of relative mass of parent (TCA) to daughter (DCA, chloroethane, etc.) compounds. Also note that scale varies between graphs in order to depict ranges of values for each well.

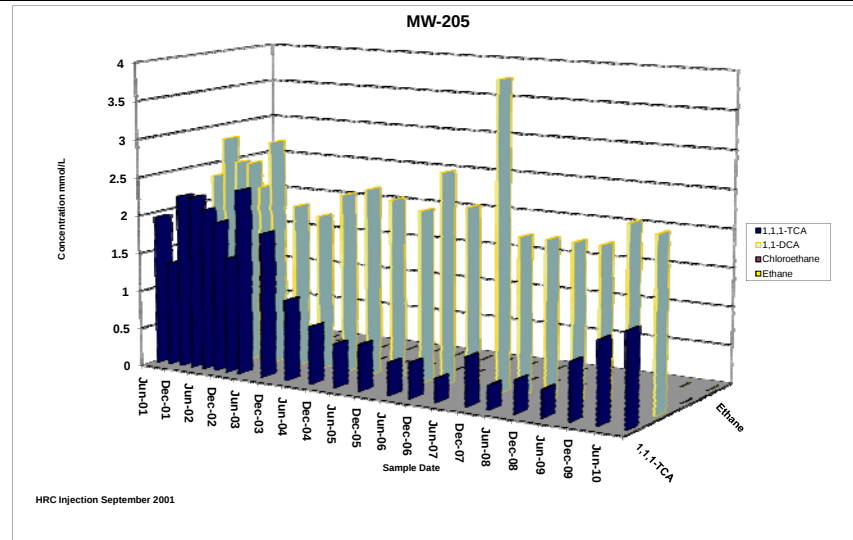


TABLE I
COOPERVISION, INC.
SUMMARY OF VOLATILE ORGANICS AND DISSOLVED GASES
MID-GRADIENT WELLS

All values expressed in mg/l (ppm)

Sample ID: Well Screen Interval (ft): Date Sampled:	MW-3 3.0 - 10.0																										
	6/18/1997	6/2/1999	10/26/1999	10/18/2001	2/15/2002	4/9/2002	7/30/2002	10/15/2002	1/28/2003	4/7/2003	10/28/2003	4/6/2004	4/6/2004 DEC split	10/27/2004	4/6/2005	10/10/2005	5/17/2006	10/18/2006	4/25/2007	11/14/2007	4/28/2008	10/13/2008	4/24/2009	10/20/2009	4/21/2010	10/19/2010	
Compound:																											
VOLATILE ORGANICS																											
Acetone	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.02	ND	ND	ND	ND	20x Dil.	20x Dil.	20x Dil.	20x Dil.	20x Dil.	20x Dil.	20x Dil.	10x Dil.	10x Dil.	10x Dil.
1,1-Dichloroethane	2	2.9	3.2	0.79 D	2.8	2.4	3.8	3.9	5.8	8.4	0.56	1 D	0.74 D	3.1	0.68	1	0.34	0.51	0.93	0.22	0.36	0.36	0.38	0.21	0.1	0.16	
1,1-Dichloroethene	0.63	1.8	2.2	0.53 D	2	2	1.8	1.4	1.5	1.2	0.57	0.33	0.23 D	0.36	0.099	0.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
1,1,1-Trichloroethane	3.3	10	8	2.4 D	9.1	8.5	6.2	3.4	1.7	ND	0.23	0.9 D	0.66 D	0.42	0.23	0.17	ND	ND	0.14	ND	ND	ND	ND	ND	ND	ND	
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Trichloroethene	ND	ND	ND	0.037	ND	ND	ND	ND	ND	ND	ND	ND	0.026	0.031	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	0.29	1.3	3	2.8 D	3 D	2.3	1.0	2.8 E	2.3	3.7	3.4	2.5	2.4	2.8	3.1	1.8	1.0	1.7	
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Methylene Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.001	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
2-Butanone (MEK)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.013	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Vinyl Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.21	0.36	0.50	0.34	0.082	0.56	0.39	0.71	0.67	0.51	0.5	0.63	0.69	0.38	0.25	0.38	
1,4-Dioxane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.058	0.660	NA	ND	NA	NA	NA	NA	NA	0.088 D	NA	0.075	NA	NA	NA	
DISSOLVED GASES																											
Methane	NA	NA	NA	DRY	0.02	NA	0.039	0.036	0.12	0.18	0.17	0.0095	NA	0.38	0.019	0.3	0.37	0.9	0.96	0.73	0.58	1.2	1	0.83	0.93	1.6 D	
Ethane	NA	NA	NA	DRY	0.0039	NA	0.0029	0.0016	0.0029	0.003	ND	ND	NA	ND	0.0019	ND	ND	ND	ND	ND	ND	0.003	ND	ND	ND	ND	
Ethene	NA	NA	NA	DRY	ND	NA	ND	ND	ND	ND	ND	ND	NA	ND	ND	0.0066	ND	0.019	0.016	0.015	0.011	0.027	ND	0.010	0.020	0.031	

Notes & Abbreviations:

ND: Not Detected
NA: Not Analyzed
DRY: Insufficient Recharge
D: Diluted Result
J: Estimated Result
B: Blank Contamination

1. The tables represent all data as reported from the lab in concentration format (mg/L).

2. The time-trend graphs concentrations have been converted to mmol/L to provide better stoichiometric representation of relative mass of parent (TCA) to daughter (DCA, chloroethane, etc.) compounds. Also note that scale varies between graphs in order to depict ranges of values for each well.

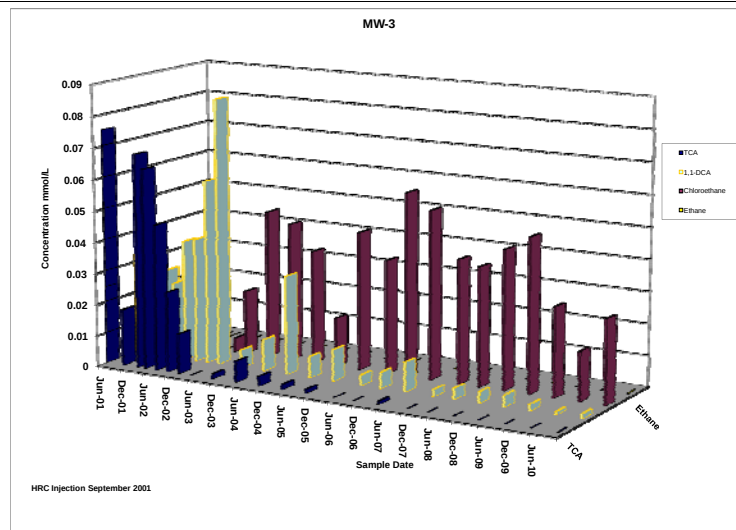


TABLE 1
COOPERVISION, INC.
SUMMARY OF VOLATILE ORGANICS AND DISSOLVED GASES
MID-GRADIENT WELLS

All values expressed in mg/l (ppm)

Sample ID: Well Screen Interval (ft): Date Sampled:	MW-501 20.0 - 25.0																								
	7/19/2001	7/23/2001	10/17/2001	10/17/2001 DEC SPLIT	2/15/2002	4/9/2002	7/30/2002	10/15/2002	1/29/2003	4/7/2003	10/29/2003	4/7/2004	10/27/2004	4/8/2005	10/11/2005	5/16/2006	10/18/2006	4/25/2007	11/14/2007	4/28/2008	10/15/2008	4/24/2009	10/20/2009	4/21/2010	10/18/2010
Compound:																									
VOLATILE ORGANICS																									
Acetone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	5.3 D	0.055	0.4475	0.96	9.9 D	1.8	2.2 D	4.3	7	0.4	0.56	0.6	0.79	0.49	0.48	0.29	0.31	0.24	0.15	0.09	0.17	0.11	0.088	0.089
1,1-Dichloroethene	ND	0.0098	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.26	0.7	0.9	0.42	0.37	1.4 E	0.68 D	0.31	0.28	0.71 D	0.52	0.32	0.61	0.47	0.46	0.49 D
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.028	0.029	ND	0.041	0.046	0.06	0.054	0.051	0.051	0.058	0.018	0.071	0.047	0.065	0.095
1,4-Dioxane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DISSOLVED GASES																									
	200X Dil														100X Dil										
Methane	0.0033	0.0081	0.018	NA	0.02	NA	0.037	0.25	5.5	6.8	11	13	4.4	13	5	8.6	8	7.1	0.042	10	1.6	15	37	15	9.7
Ethane	ND	0.005	0.004	NA	0.0018	NA	0.0011	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0024	ND	ND	ND	ND
Ethene	ND	0.0045	0.0014	NA	0.0012	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes & Abbreviations:

ND: Not Detected

NA: Not Analyzed

DRY: Insufficient Recharge

D: Diluted Result

J: Estimated Result

B: Blank Contamination

1. The tables represent all data as reported from the lab in concentration format (mg/L).

2. The time-trend graphs concentrations have been converted to mmol/L to provide better stoichiometric representation of relative mass of parent (TCA) to daughter (DCA, chloroethane, etc.) compounds. Also note that scale varies between graphs in order to depict ranges of values for each well.

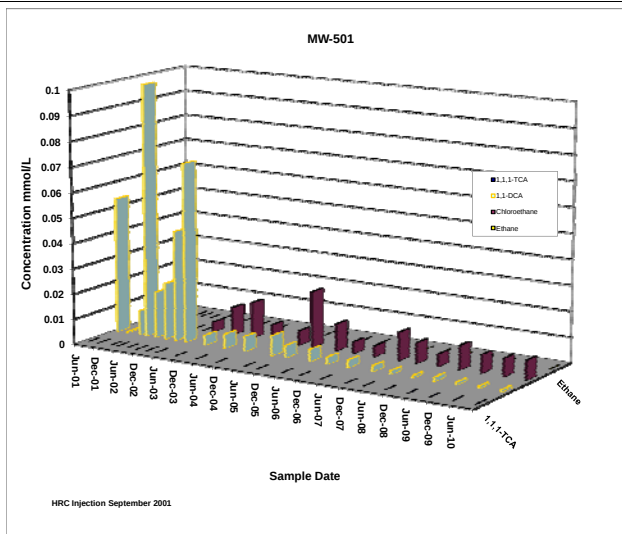


TABLE 1
COOPERVISION, INC.
SUMMARY OF VOLATILE ORGANICS AND DISSOLVED GASES
MID-GRADIENT WELLS

All values expressed in mg/l (ppm)

Sample ID: Well Screen Interval (ft): Date Sampled:	MW-502 30.0 - 35.0																							
	7/24/2001	10/17/2001	10/17/2001 DEC SPLIT	1/28/2002	4/9/2002	7/30/2002	10/15/2002	1/27/2003	4/7/2003	10/28/2003	4/7/2004	10/27/2004	4/7/2005	10/11/2005	7/6/2006	10/18/2006	4/25/2007	11/14/2007	4/30/2008	10/15/2008	4/24/2009	10/20/2009	4/21/2010	10/18/2010
Compound:																								
VOLATILE ORGANICS																								
Acetone	ND	ND	0.072	ND	ND	ND	ND	ND	ND	ND	0.14	ND	ND	ND	0.35	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	9.8 D	11	4.4	3.3	0.82 D	3.8 D	11 D	17	13	1.5	0.52	ND	6.8	ND	ND	0.016	0.054	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	0.14	ND	ND	ND	0.14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	0.059	0.16	ND	ND	ND	0.26	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	0.011	ND	0.0455	ND	ND	ND	ND	ND	ND	11	7.5 D	12	10	12	5.7 D	10 D	7.9	8.8	7.5	8.7	7.8	9.1	11 D	13
1,2-Dichloroethane	0.012	ND	0.0115	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	0.0063	1.1	0.0489	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	0.011	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.19	ND	ND	ND	0.28	0.19	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.69	5.6	ND	0.12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dioxane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DISSOLVED GASES																								
Methane	DRY	0.018	NA	0.0027	NA	0.32	0.78	3.4	1.5	6.3	6.9	7.4	8.5	12	4.8	5.8	12	9.4	15	44 D	8.8	10	15	11
Ethane	DRY	0.024	NA	0.0061	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0051	ND	ND	ND	ND
Ethene	DRY	0.0066	NA	0.002	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes & Abbreviations:

ND: Not Detected
NA: Not Analyzed
DRY: Insufficient Recharge
D: Diluted Result
J: Estimated Result
B: Blank Contamination

1. The tables represent all data as reported from the lab in concentration format (mg/L).

2. The time-trend graphs concentrations have been converted to mmol/L to provide better stoichiometric representation of relative mass of parent (TCA) to daughter (DCA, chloroethane, etc.) compounds. Also note that scale varies between graphs in order to depict ranges of values for each well.

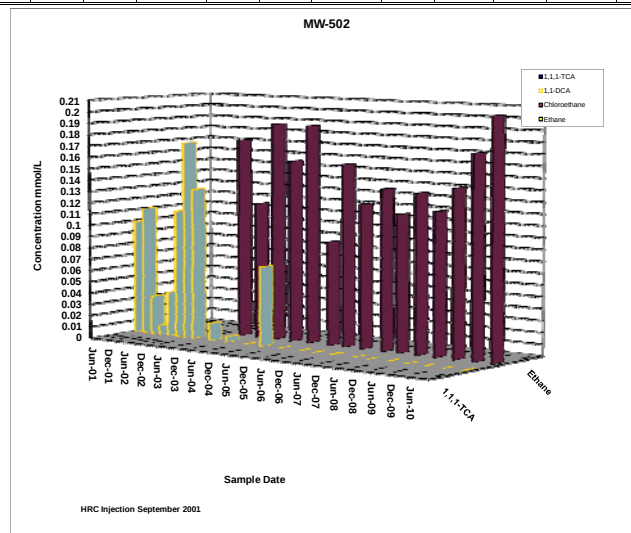


TABLE III
COOPERVISION, INC.
SUMMARY OF VOLATILE ORGANICS AND DISSOLVED GASES
DOWN-GRADIENT WELLS

All values expressed in mg/l (ppm)

Sample ID: Well Screen Interval (ft):	MW-202 10.1 - 20.3																									
Date Sampled:	7/10/97	6/2/99	10/26/99	7/18/01	10/18/01	1/28/02	4/8/02	7/29/02	10/14/02	1/29/03	4/7/03	10/28/03	4/7/04	10/26/04	4/6/05	10/10/05	7/6/06	10/17/06	4/24/07	11/14/07	4/28/08	10/13/08	4/23/09	10/20/09	4/21/10	10/19/10
Compound:																										
VOLATILE ORGANICS																										
Acetone	0.027	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	0.008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0064	0.0053	ND	0.0093	0.0110	0.0130	ND
1,1-Dichloroethene	0.018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0056	ND	ND	0.0050	0.0078	0.0083	ND
1,1,1-Trichloroethane	0.061	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	0.008	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dioxane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DISSOLVED GASES																										
Methane	NA	NA	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethane	NA	NA	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	NA	NA	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes & Abbreviations:

ND: Not Detected

NA: Not Analyzed

DRY: Insufficient Recharge

D: Diluted Result

J: Estimated Result

B: Blank Contamination

E: Estimated Result

1. The tables represent all data as reported from the lab in concentration format (mg/L).

TABLE III
COOPERVISION, INC.
SUMMARY OF VOLATILE ORGANICS AND DISSOLVED GASES
DOWN-GRADIENT WELLS

All values expressed in mg/l (ppm)

Sample ID: Well Screen Interval (ft):	MW-203 9.8 - 20.0																								
Date Sampled:	7/10/97	6/2/99	7/18/01	10/18/01	1/29/02	4/8/02	7/29/02	10/14/02	1/30/03	4/7/03	10/28/03	4/7/04	10/26/04	4/6/05	10/10/05	5/15/06	10/19/06	4/26/07	11/14/07	4/30/08	10/13/08	4/22/09	10/21/09	4/21/10	10/19/10
Compound:																									
VOLATILE ORGANICS																									
Acetone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	0.118	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.018	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.009	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dioxane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
DISSOLVED GASES																									
Methane	NA	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethane	NA	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	NA	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes & Abbreviations:

ND: Not Detected
NA: Not Analyzed
DRY: Insufficient Recharge
D: Diluted Result
J: Estimated Result
B: Blank Contamination
E: Estimated Result

1. The tables represent all data as reported from the lab in concentration format (mg/L).

TABLE III
COOPERVISION, INC.
SUMMARY OF VOLATILE ORGANICS AND DISSOLVED GASES
DOWN-GRADIENT WELLS

All values expressed in mg/l (ppm)

Sample ID: Well Screen Interval (ft):	MW-204 9.8 - 20.0																										OW-306 4.0 - 14.0	
Date Sampled:	7/10/97	6/2/99	7/18/01	10/18/01	1/28/02	4/8/02	7/29/02	10/14/02	1/30/03	4/7/03	10/28/03	4/6/04	4/6/04 DEC split	10/26/04	4/6/05	10/10/05	7/6/06	10/18/06	4/26/07	11/14/07	4/28/08	10/13/08	4/23/09	10/20/09	4/21/10	10/19/10	4/21/10	10/19/10
Compound:																												
VOLATILE ORGANICS																												
Acetone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	0.012	0.019	0.011	0.010	0.007	0.010	0.008	0.006	0.008	0.006	0.006	ND	0.0068	0.0053	ND	0.1800	0.0740	0.0070	0.0056	0.0060	0.0056	0.0063	0.0055	0.0130	ND	ND
1,1-Dichloroethene	ND	ND	0.0088	0.015	0.008	0.007	ND	0.008	0.006	0.005	0.005	0.006	0.004	ND	ND	ND	ND	0.009	ND	0.0067	ND	ND	ND	0.0067	0.0053	0.0130	ND	ND
1,1,1-Trichloroethane	ND	ND	0.01	0.022	0.011	0.010	ND	0.011	0.007	ND	0.006	0.006	0.005 J	ND	ND	ND	ND	0.097	0.030	ND	ND	ND	ND	ND	ND	0.0063	ND	ND
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	0.015	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl Chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dioxane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.090	0.086	NA	0.047	NA	NA	NA	NA	NA	NA	0.030 D	NA	0.022	NA	NA	NA	NA	NA
DISSOLVED GASES																												
Methane	NA	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethane	NA	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	NA	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes & Abbreviations:

ND: Not Detected
NA: Not Analyzed
DRY: Insufficient Recharge
D: Diluted Result
J: Estimated Result
B: Blank Contamination
E: Estimated Result

1. The tables represent all data as reported from the lab in concentration format (mg/L).

TABLE IV
COOPERVISION INCORPORATED
ADDITIONAL ANALYTICAL
PARAMETER SUMMARY

Sample ID	MW-205																							
Analyte	7/19/01	9/26/01	10/18/01	1/28/02	4/9/02	7/29/02	10/15/02	1/28/03	4/7/03	10/30/03	4/6/04	10/28/04	4/8/05	10/11/05	5/16/06	10/18/06	4/25/07	11/15/07	4/30/08	10/16/08	4/24/09	10/21/09	4/24/10	10/18/10
INORGANICS (mg/L)																								
Nitrite Nitrogen	0.0265	NS	<0.0500	NA	NA	0.0174	NA	NA	0.0151	NA	0.069	NA	0.0291	<0.0500	0.0524	0.0107	<0.0600	<0.100	<0.04	<2.0	<0.01	26.6	2	<0.05
Nitrate/Nitrite Nitrogen	<0.500	NS	NA	NA	NA	<0.0500	NA	NA	0.135	NA	<0.0500	NA	<0.100	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	NA	NA	<0.05	NA	NA	NA
Chloride	750	NS	708	NA	NA	741	NA	NA	729	NA	746	613	689	677	684	705	690	671	697	834	705	734	659	762
Dissolved Organic Carbon	52.2	NS	55.2	NA	NA	201	NA	NA	354	NA	497 ^{DOC}	NA	667	1630	979	1020	1420	1270	1690	1620	2220	2653	NA	NA
Nitrate Nitrogen	0.0514	NS	<0.0500	NA	NA	<0.0500	NA	NA	0.12	NA	<0.0500	<1.0	<0.200	<0.0500	<0.0500 J	<0.0500	<0.0500	<0.500	<1.0	<0.5	<0.05	<0.50	<0.05	<4.0
Total Alkalinity	404	NS	378	NA	NA	619	NA	NA	1010	NA	1400	NA	1380	1470	1500	1440	1650	1820	1980	2100	2350	2390	2610	2750
Sulfate	96.9	NS	91	NA	NA	27.5	NA	NA	9.21	NA	11.4	<2.0	2.5	2.46	2.34	<0.2	<2.0	<2.0	6.26	4.8	5.7	8.4	8.8	10.9
Total Sulfide	<1.00	NS	<1.00	NA	NA	<1.00	NA	NA	<1.00	NA	<1.00	<1.0	<1.0	<1.0	<1.0	<1.0	4.25	3.05	<1.0	2	<1.0	<1.0	1.6	<1.0
Total Iron	21.2	NS	47.3	NA	NA	51.2	NA	NA	40.2	NA	42.9	54.2	64.3	90.1	72.7	89.8	92.2	186	90.8	126	89.8	93.9	117	10.5
Total Manganese	0.641	NS	NA	NA	NA	1.3	NA	NA	0.912	NA	0.591	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
HRC COMPONENTS (mg/L)																								
Lactic Acid (C3)	<1.0	NS	NA	23.6	NA	39.1	59.5	41	81.3	117	72.9	<10	<1.0	<1.0	<10	<1.0	<10	<1.0	<10	<10	<5.0	<10	<20	<1.0
Acetic Acid (C2)	139	NS	NA	179	NA	209	236	273	282	364	326	210	250	140 E	360	380 D	360	350 D	350	340	270	270	310	430 D
Propionic Acid (C3)	<1.0	NS	NA	<1.0	NA	34.9	62.1	134	138	202	158	210	190	320 E	470	530 D	730	600 D	670	800	900	790	820	850 D
Pyruvic Acid (C3)	<0.1	NS	NA	<0.1	NA	<0.1	<0.1	<0.1	0.9	4.1	<0.1	<10	<5.0	<0.5	<5.0	<0.5	<5.0	<0.5	<5.0	<5.0	<2.5	<5.0	<10	<0.5
Butyric Acid (C4)	<1.0	NS	NA	<1.0	NA	<1.0	<1.0	13.1	26.4	68.6	177	420	400	470 E	540	700 D	1000	950	1200	1200	1900	1700	1800	2600 D
FIELD PARAMETERS																								
Dissolved Oxygen (mg/L)	NA	NA	NA	0.29	0.014	0.1	0.63	0.5	1.07	0.39	1.18	NA	0.76	NA	0.61	0.27	1.04	0.7	0.18	0	5.11*	0	1	2.04
Redox (mV)	-53	-26	NA	-88	-61	-182	-166	-103	-42	-174	-395	NA	-189	NA	-295	-517	-112	-105	-89	-85	-90	-68	-113	-105
Conductivity (mS)	2.41	3	NA	2.31	2.48	2.49	2.9	2.7	2.7	4.69	4.81	NA	4.87	NA	4.99	5.21	5.59	5.43	5.58	5.86	5.46	6.04	12.9	6.75
Iron, dissolved (mg/L)	0.2	NA	NA	2.6	3.2	4.9	5.8	5.0	5.8	5.8	4.2	NA	5.4	NA	2.8	2.2	2.2	2.4	2.4	2.5	5	1.4	2.5	4.5
Alkalinity (mg/L)	500	NA	NA	580	580	630	680	600	1300	760	1320	NA	920	NA	200	1700	1600	1760	1620	2320	1500	2360	1460	1600
Carbon Dioxide (mg/L)	182	NA	NA	140	330	220	59	418	1.07	1275	NA	NA	NA	NA	160	NA	NA	NA	NA	NA	272	NA	NA	NA

TABLE IV
COOPERVISION INCORPORATED
ADDITIONAL ANALYTICAL
PARAMETER SUMMARY

Sample ID	MW-3																							
Analyte	7/19/01	9/26/01	10/18/01	2/15/02	4/9/02	7/30/02	10/15/02	1/28/03	4/7/03	10/30/03	4/6/04	10/27/04	4/6/05	10/11/05	5/17/06	10/18/06	4/25/07	11/14/07	4/28/08	10/13/08	4/23/09	10/20/09	4/21/10	10/19/10
INORGANICS (mg/L)																								
Nitrite Nitrogen	NS	NS	0.13	NA	NA	<0.01	NA	NA	<0.0100	NA	0.0433	NA	<0.01	<0.01	0.0171	0.0155	<0.0100	<0.0100	<0.0100	<0.5	<0.01	<0.50	<0.50	<0.010
Nitrate/Nitrite Nitrogen	NS	NS	NA	NA	NA	<0.05	NA	NA	0.093	NA	<0.0500	NA	<0.05	<0.05	<0.0500	<0.0500	<0.0500	<0.0500	NA	NA	<0.05	NA	NA	NA
Chloride	NS	NS	139	NA	NA	171	NA	NA	269	NA	253	330	391	369	381	382	367	345	251	305	288	189	257	290
Dissolved Organic Carbon	NS	NS	2.19	NA	NA	287	NA	NA	52.7	NA	5.67 ^{TOC}	NA	3.51	5.49	19.9	21.8	11.8	10.8	12.5	5.45	5.8	4.2	NA	NA
Nitrate Nitrogen	NS	NS	2.21	NA	NA	<0.05	NA	NA	0.093	NA	<0.0500	<1.0	<0.05	<0.05	<0.0500	<0.0500	<0.0500	<0.5	<0.5	<0.5	<0.05	<0.50	<0.50	<1.0
Total Alkalinity	NS	NS	197	NA	NA	610	NA	NA	349	NA	218	NA	207	230	251	265	241	266	248	270	242	241	205	212
Sulfate	NS	NS	15.1	NA	NA	2.08	NA	NA	8.81	NA	11.0	5.9	4.7	4.4	2.7	<0.200	<2.0	<2.0	<2.0	3.03	<2.0	2.4	2.6	3.2
Total Sulfide	NS	NS	<1.0	NA	NA	<1.0	NA	NA	<1.00	NA	<1.00	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.5	<1.0
Total Iron	NS	NS	14.1	NA	NA	181	NA	NA	116	NA	15.6	14.9	44.4	47.9	26.1	35.5	42.6	28.4	15.5	44.9	36.4	10	21.8	6.7
Total Manganese	NS	NS	NA	NA	NA	8.01	NA	NA	6.28	NA	1.60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
HRC COMPONENTS (mg/L)																								
Lactic Acid (C3)	NS	NS	NA	<1.0	<1.0	8.2	<1.0	12.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	NA
Acetic Acid (C2)	NS	NS	NA	14	37.2	83.8	180	86.8	80.8	18.7	11.1	<1.0	4.7	9.7	49	58	42	24	22	7.8	12	<1.0	NA	NA
Propionic Acid (C3)	NS	NS	NA	15	42.5	248	606	241	225	28.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	NA
Pyruvic Acid (C3)	NS	NS	NA	<0.1	0.2	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1.0	<5.0	<0.5	<0.50	<0.50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.50	NA	NA
Butyric Acid (C4)	NS	NS	NA	7.6	24.3	72	505	157	100	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	NA	NA
FIELD PARAMETERS																								
Dissolved Oxygen (mg/L)	NS	NS	NA	5.19	4.95	1.34	2.86	2.40	3.58	1.11	5.68	NA	6.91	NA	1.42	1.98	0.93	NA	NA	NA	NA	0.85	NA	NA
Redox (mV)	NS	NS	NA	-116	35	-127	-70	-79	-80	-37	54	NA	-68	NA	194	61	-38	NA	NA	NA	NA	-56	NA	NA
Conductivity (mS)	NS	NS	NA	0.07	0.06	0.12	0.25	0.00	1.10	1.33	1.20	NA	1.58	NA	1.61	1.76	1.72	NA	NA	NA	NA	1.41	NA	NA
Iron, dissolved (mg/L)	NS	NS	NA	NA	0.2	0.9	4.4	4.5	4.5	3	1.2	NA	0.2	NA	0.01	0.2	1.2	0	0.4	0.2	NA	0.6	0	0.3
Alkalinity (mg/L)	NS	NS	NA	NA	240	680	1000	280	560	480	280	NA	160	NA	60	320	300	280	220	400	NA	320	300	240
Carbon Dioxide (mg/L)	NS	NS	NA	NA	61.7	84	268	220	356	242	460	NA	NA	NA	23.5	220	160	194	140	212	NA	140	136	80

TABLE IV
COOPERVISION INCORPORATED
ADDITIONAL ANALYTICAL
PARAMETER SUMMARY

Sample ID	MW-501																							
Analyte	7/19/01	9/26/01	10/18/01	2/15/02	4/9/02	7/29/02	10/15/02	1/29/03	4/7/03	10/30/03	4/7/04	10/27/04	4/6/05	10/11/05	5/16/06	10/18/06	4/25/07	11/14/07	4/28/08	10/15/08	4/23/09	10/20/09	4/21/10	10/18/10
INORGANICS (mg/L)																								
Nitrite Nitrogen	ND	NS	0.159	NA	NA	0.0143	0.0143	NA	0.012	NA	0.0152	NA	0.0407	<0.0100	<0.0100	0.0167	<0.0100	<0.01	0.0144	<0.5	<0.01	<0.5	<0.50	<0.010
Nitrate/Nitrite Nitrogen	0.063	NS	NA	NA	NA	<0.0500	<0.0500	NA	0.16	NA	<0.0500	NA	<0.100	<0.0500	<0.0500	<0.0500	<0.0500	NA	NA	<0.05	NA	NA	NA	NA
Chloride	355	NS	85.6	NA	NA	208	NA	NA	1840	NA	3870	2180	2130	1860	1700	1200	1060	418	3500	1140	2240	594	7010	1460
Dissolved Organic Carbon	3.38	NS	141	NA	NA	15.7	NA	NA	173	NA	4.72 ^{DOC}	NA	4.7	5.69	5.19	7.3	6.88	7.91	4.82	9.17	5.7	8.95	NA	NA
Nitrate Nitrogen	0.063	NS	0.634	NA	NA	<0.0500	NA	NA	0.148	NA	<0.0500	<1.0	<0.0500	<0.0500	<0.0500	<0.0500	<0.500	<0.500	<0.5	<0.05	0.69	0.84	<1.0	
Total Alkalinity	201	NS	167	NA	NA	259	NA	NA	575	NA	229	NA	270	289	296	349	402	359	231	439	318	282	229	381
Sulfate	40.2	NS	21.5	NA	NA	27.3	NA	NA	4.38	NA	43.3	5.96	31	6.32	24.4	12	21.5	2.29	51.2	2.75	9.4	15.5	99.9	7.3
Total Sulfide	<1.00	NS	1.18J	NA	NA	ND	NA	NA	3.44	NA	2.57	<1.0	1.24	<1.00	<1.0	1.27	<1.0	1.32	<1.0	2.76	<0.01	<1.0	<1.0	1.4
Total Iron	462	NS	662	NA	NA	152	NA	NA	99.4	NA	238	998	377	11.3	9.31	7.3	2.96	8.57	10.5	9.35	8890	155	13.9	6.37
Total Manganese	11.8	NS	NA	NA	NA	4.1	NA	NA	3.02	NA	7.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
HRC COMPONENTS (mg/L)																								
Lactic Acid (C3)	<1.0	NS	NA	NA	34.3	8.7	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	NA
Acetic Acid (C2)	<1.0	NS	NA	NA	15.7	10.3	6.3	33.3	135	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.4	<1.0	1.4	<1.0	<1.0	<1.0	<1.0	NA	NA
Propionic Acid (C3)	<1.0	NS	NA	NA	15.4	10.1	4.2	15.2	111	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	NA
Pyruvic Acid (C3)	<0.1	NS	NA	NA	1.1	<0.1	2.4	<0.1	<0.1	<0.1	<0.1	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<0.5	<0.5	<0.5	<0.5	<0.50	NA	NA
Butyric Acid (C4)	<1.0	NS	NA	NA	8.2	<1.0	<1.0	<1.0	46.3	<1.0	<1.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<1.0	<2.0	<2.0	<2.0	<2.0	NA	NA
FIELD PARAMETERS																								
Dissolved Oxygen (mg/L)	0.3	0.01	NA	0.27	1.07	0.49	2.18	0.46	0.38	0.4	3.39	NA	3.63	NA	1.19	2.85	1.39	NA	NA	NA	NA	0.86	NA	0.02
Redox (mV)	-280	-205	NA	-108	5	-196	-141	-131	-208	-36	211	NA	-106	NA	92	61	85	NA	NA	NA	NA	-84	NA	-339
Conductivity (mS)	1.61	0.68	NA	12.03	1.55	0.76	1.01	8.08	8.47	1.55	12.2	NA	7.73	NA	5.7	4.28	4.03	NA	NA	NA	NA	1.79	NA	5.37
Iron, dissolved (mg/L)	ND	NA	NA	0.2	ND	ND	0.5	0.9	2.8	1.8	1.8	NA	0.8	NA	1.5	0.2	0	0.9	0.8	0	2.4	0.3	1.3	1.6
Alkalinity (mg/L)	920	NA	NA	200	210	320	360	280	960	440	260	NA	100	NA	150	400	360	340	180	500	400	300	260	400
Carbon Dioxide (mg/L)	34	NA	NA	90	60	38	32.6	104	284	188	230	NA	NA	NA	24	148	210	150	90	100	160	140	116	225

TABLE IV
COOPERVISION INCORPORATED
ADDITIONAL ANALYTICAL
PARAMETER SUMMARY

Sample ID	MW-502																							
Analyte	7/19/01	9/26/01	10/18/01	1/28/02	4/9/02	7/29/02	10/15/02	1/27/03	4/7/03	10/30/03	4/6/04	10/27/04	4/6/05	10/11/05	5/16/06	10/18/06	4/25/07	11/14/07	4/30/08	10/15/08	4/24/09	10/20/09	4/21/10	10/18/10
INORGANICS (mg/L)																								
Nitrite Nitrogen	0.0389	NS	ND	NA	NA	ND	NA	NA	<0.010	NA	<0.0100	NA	0.066	<0.0200	0.0259	0.0183	<0.0200	<0.0100	<0.200	<0.5	<0.05	<0.50	<0.50	<1.0
Nitrate/Nitrite Nitrogen	0.137	NS	NA	NA	NA	ND	NA	NA	<0.050	NA	<0.0500	NA	<0.200	<0.0500	<0.0500	<0.0500	<0.0500	<0.0500	NA	NA	<0.05	NA	NA	NA
Chloride	246	NS	241	NA	NA	84.6	NA	NA	281	NA	310	366	347	360	382	434	505	523	522	493	476	600	562	606
Dissolved Organic Carbon	5.21	NS	26.7	NA	NA	34.7	NA	NA	284	NA	639 ^{TOC}	NA	903	545	190	167	87.4	59.6	54	14.3	13.9	12.7	NA	NA
Nitrate Nitrogen	0.137	NS	0.859	NA	NA	ND	NA	NA	0.139	NA	<0.0500	<1.0	<0.200	<0.0500	<0.0500	<0.0500	<0.0500	<0.500	<0.500	<0.5	<0.05	<0.50	<0.50	<0.010
Total Alkalinity	1.08	NS	94.4	NA	NA	125	NA	NA	531	NA	860	NA	1160	1160	998	1920	1000	1060	968	765	742	791	800	751
Sulfate	183	NS	56.2	NA	NA	4.74	NA	NA	ND	NA	<2.00	<2.0	<2.0	<2.0	3.13	<0.200	<2.0	<2.0	<2.0	2.46	<2.0	<2.0	<2.0	<2.0
Total Sulfide	1.08	NS	1.28	NA	NA	1.2	NA	NA	2.29	NA	<1.00	<1.0	<1.0	<1.00	29.3	1.24	4.33	2.68	<1.0	1.8	<1.0	<1.0	5.8	1.8
Total Iron	ND	NS	4.96	NA	NA	12	NA	NA	72.7	NA	282	1820	1960	1030	992	631	2940	2580	1350	1090	987	284	186	26
Total Manganese	0.317	NS	NA	NA	NA	0.259	NA	NA	1.77	NA	12.10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
HRC COMPONENTS (mg/L)													20x Dil.	10x Dil.	5x Dil.									
Lactic Acid (C3)	<1.0	NS	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	23.8	<1.0	<1.0	<20	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA	NA
Acetic Acid (C2)	<1.0	NS	NA	<1.0	3.5	38.5	70.5	236	220	451	635	<1.0	400	660	120 D	150	75	79	87	7.8	7.7	6.1	NA	NA
Propionic Acid (C3)	<1.0	NS	NA	<1.0	22.6	97.5	233	216	402	281	<1.0	870	470	260 D	200	37	14	1.5	<1.0	<1.0	<1.0	<1.0	NA	NA
Pyruvic Acid (C3)	<0.1	NS	NA	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1.0	<10	<5.0	<0.5	<0.5	<0.50	<0.5	<0.5	<0.5	<0.5	<0.50	NA	NA
Butyric Acid (C4)	<1.0	NS	NA	<1.0	<1.0	<1.0	20.2	54.8	62.9	99.7	113	<2.0	<40	74	<2.0	<2.0	3.9	<2.0	<2.0	<2.0	<2.0	<2.0	NA	NA
FIELD PARAMETERS																								
Dissolved Oxygen (mg/L)	2.9	0.51	NA	2.93	0.13	0.00	0.21	0.93	1.03	0.21	1.18	NA	0.41	NA	0.36	0.25	0	0.38	0	0	3.13*	1.97	0	0.17
Redox (mV)	-264	-262	NA	28	-103	-117	-196	-118	-121	-13	-164	NA	-145	NA	93	88	-105	-112	-124	-168	-160	-116	-184	-131
Conductivity (mS)	0.64	0.98	NA	0.33	2.79	0.1	0.93	1.06	1.38	2.83	2.93	NA	13.42	NA	2.9	3.36	3.24	2.99	3.06	2.27	2.27	2.8	9.64	3.13
Iron, dissolved (mg/L)	ND	NA	NA	ND	ND	ND	ND	1.5	0.8	2.7	2.2	NA	2.8	NA	0.1	3	1	1.4	NA	1.5	0.5	1.6	0	1
Alkalinity (mg/L)	120	NA	NA	75	54	220	200	140	440	1100	NA	NA	280	NA	NA	2300	1160	920	960	NA	820	920	2400	740
Carbon Dioxide (mg/L)	27.2	NA	NA	37.4	180	72	32.6	114	182	240	NA	NA	NA	NA	200	802	800	600	NA	NA	336	426	624	NA

TABLE IV
COOPERVISION INCORPORATED
ADDITIONAL ANALYTICAL
PARAMETER SUMMARY

Sample ID	OWS-302-S																							
Analyte	7/19/01	9/26/01	10/18/01	1/28/02	4/9/02	7/29/02	10/15/02	1/28/03	4/7/03	10/30/03	4/8/04	10/27/04	4/6/05	10/12/05	5/16/06	10/17/06	4/25/07	11/14/07	4/30/08	10/15/08	4/23/09	10/20/09	4/21/10	10/18/10
INORGANICS (mg/L)																								
Nitrite Nitrogen	NA	NS	0.143	NA	NA	0.03008	NA	NA	0.0279	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.50	<1.0
Nitrate/Nitrite Nitrogen	NA	NS	NA	NA	NA	0.0576	NA	NA	0.147	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	NA	NS	1600	NA	NA	NA	NA	NA	2370	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3070	2880
Dissolved Organic Carbon	NA	NS	NA	NA	NA	148	NA	NA	52.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	604	NA	NA	NA	NA	NA
Nitrate Nitrogen	NA	NS	<0.0500	NA	NA	<0.0500	NA	NA	0.119	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<5.0	<0.020
Total Alkalinity	NA	NS	69.7	NA	NA	696	NA	NA	350	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1210	1150
Sulfate	NA	NS	228	NA	NA	NS	NA	NA	407	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	44.9	2.2
Total Sulfide	NA	NS	3	NA	NA	NS	NA	NA	2.49	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1.0	NA	NA	NA	1.2	<1.0
Total Iron	NA	NS	NA	NA	NA	NS	NA	NA	260	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	18.1	79.6
Total Manganese	NA	NS	NA	NA	NA	NS	NA	NA	5.62	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
HRC COMPONENTS (mg/L)	10x Dil. 10x Dil. 10x Dil.																		2x Dil.		5x Dil.			
Lactic Acid (C3)	NA	NS	NA	<1.0	13.4	4.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	NA	3.2	<5.0	NA	NA
Acetic Acid (C2)	NA	NS	NA	<1.0	293	286	240	297	90.8	443	623	65	290	1000	890	100	110	190	910	NA	770	690	NA	NA
Propionic Acid (C3)	NA	NS	NA	<1.0	9.8	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	150	120	17	6	24	190	NA	220	200	NA	NA
Pyruvic Acid (C3)	NA	NS	NA	<0.1	0.5	1.4	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<5.0	<5.0	<5.0	<0.5	<0.5	<0.5	<2.5	NA	<1.0	<2.5	NA	NA
Butyric Acid (C4)	NA	NS	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	35.3	<2.0	23	100	77	14	7.9	9.8	88	NA	110	79	NA	NA
FIELD PARAMETERS																								
Dissolved Oxygen (mg/L)	NA	NS	NA	NA	1.74	1.24	2.23	8.5	0.11	1.7	6.88	NS	7.26	NA	NS	8.19	1.46	NA	NA	NA	NA	NS	0.86	3.08
Redox (mV)	NA	NS	NA	NA	-59	-133	-122	-51	-158	9	78	NS	-62	NA	NS	38	-126	NA	NA	NA	NA	NS	-63	-100
Conductivity (mS)	NA	NS	NA	NA	6.45	0.94	4.22	5.03	5.03	4.43	7.86	NS	13.09	NA	NS	1.65	24.4	NA	NA	NA	NA	NS	9	12.8
Iron, dissolved (mg/L)	ND	NS	NA	NA	3.3	5.9	5.2	3.8	NA	3	3.4	NS	NA	NA	NS	1.3	2.2	1.6	4	0	NA	NS	1.1	5.8
Alkalinity (mg/L)	640	NS	NA	580	600	720	820	520	NA	960	1200	NS	NA	NA	NS	720	520	320	1040	1160	NA	NS	920	1000
Carbon Dioxide (mg/L)	NA	NS	NA	NA	358	260	38	475	NA	730	390	NS	NA	NA	NS	320	234	NA	600	264	NA	NS	526	589

Notes & Abbreviations

NS - Not Sampled

NA - Not analyzed or results not determined due to field conditions (e.g. - water too turbid to obtain field parameters).

ND - Not detected in field tests

TOC - Total Organic Carbon

D - Diluted

* - The dissolved oxygen values detected may be a result of malfunctioning field equipment and may not be indicative of actual aquifer conditions.

1. Due to the conditions at wells MW-3, OWD-302-D, OWS-302-S, and MW-501 (poor well recharge during purging), dissolved oxygen and redox values will appear variable and may not be indicative of actual aquifer conditions.

Table V
Annual SSD System Monitoring

Location (Site/Facility Name):	CooperVision	Date:	19-Oct-10
Location (Address):	Scottsville, NY	Performed By:	M. Ramsdell
Client:	CooperVision	Job Number:	70665-018

Test Point	Vacuum Reading ("WC)
T-1	0.008
T-2	*
T-3	0.506
T-4	0.020
T-5	0.053
T-6	0.066
T-7	-0.030**
T-8	0.011
T-9	0.025***
T-10	0.018
T-11	0.982
T-12	0.014
T-13	0.007
T-14	0.016
T-15	0.025
T-16	0.017
T-17	0.017
T-18	0.004

Suction Point	Vacuum Reading ("WC)
S-1	3.80
S-2	3.70
S-3	1.60
S-4/5	2.20
S-6	3.60
S-7	1.60

* T-2 is not a valid test point

** with exterior doors closed

*** with interior doors open, -.038 with doors closed

Visual Inspection of System:

Inspection showed all conditions acceptable. See Mitigation Tech Inspection Report dated November 9, 2010.

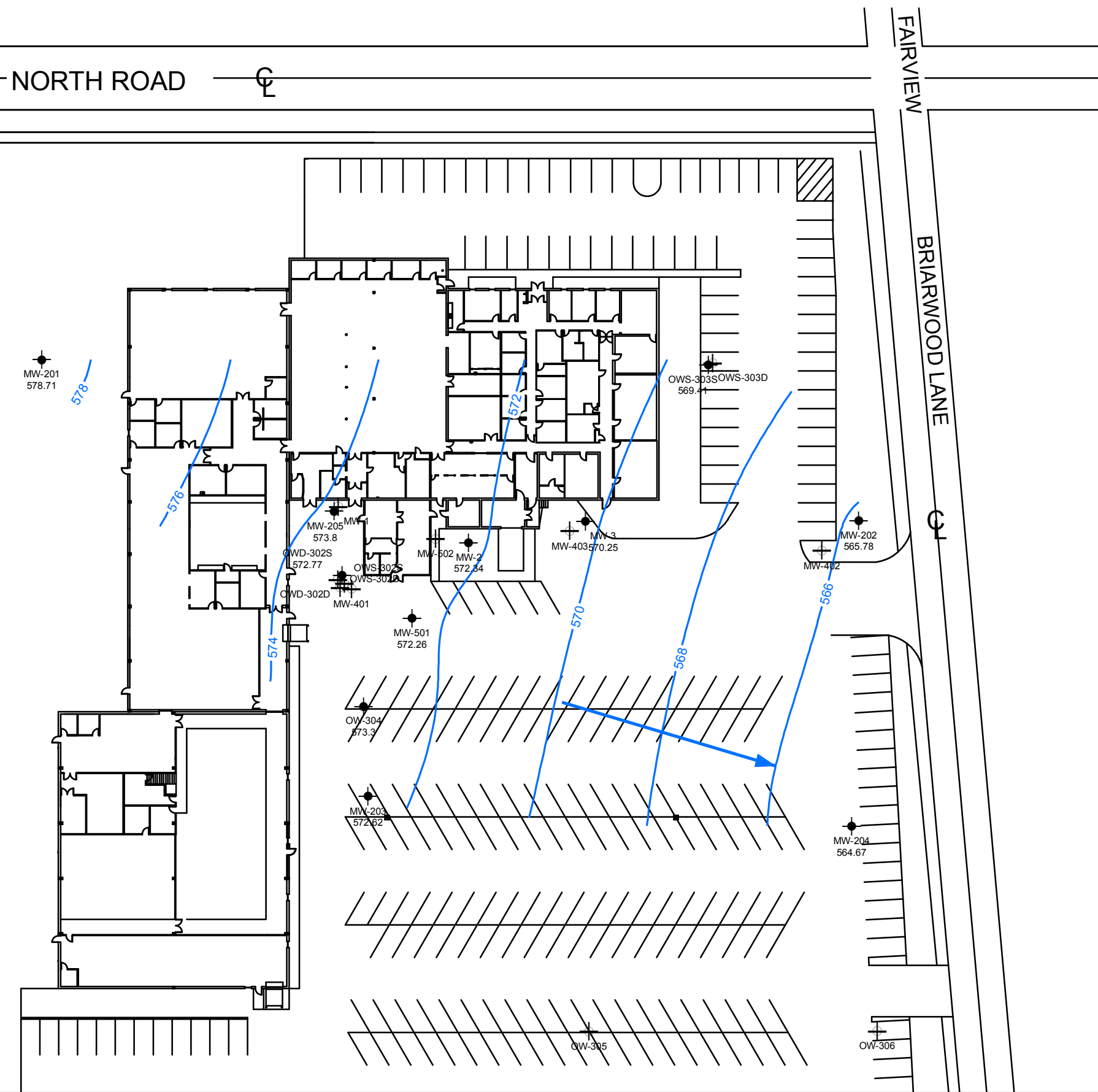
Recommendation Actions:

No actions required

Description of Past Year Activities:

First inspection, since startup. Fan F-5 was replaced in August 2010. Received data from facility personnel for January 2008 thru present. Data from 10/23/2006 through 12/2007 has been put in storage at Iron Mountain.

G:\Projects\70665011\ARCGIS\MXD\APR10_GW_CONT.mxd



LEGEND:

- WELLS INCLUDED IN CONTOURS.
- WELLS NOT INCLUDED IN CONTOURS DUE TO SCREEN DEPTH, INCOMPLETE WELL INFORMATION, OR POOR WELL RECHARGE.
- GROUNDWATER FLOW DIRECTION

NOTES:

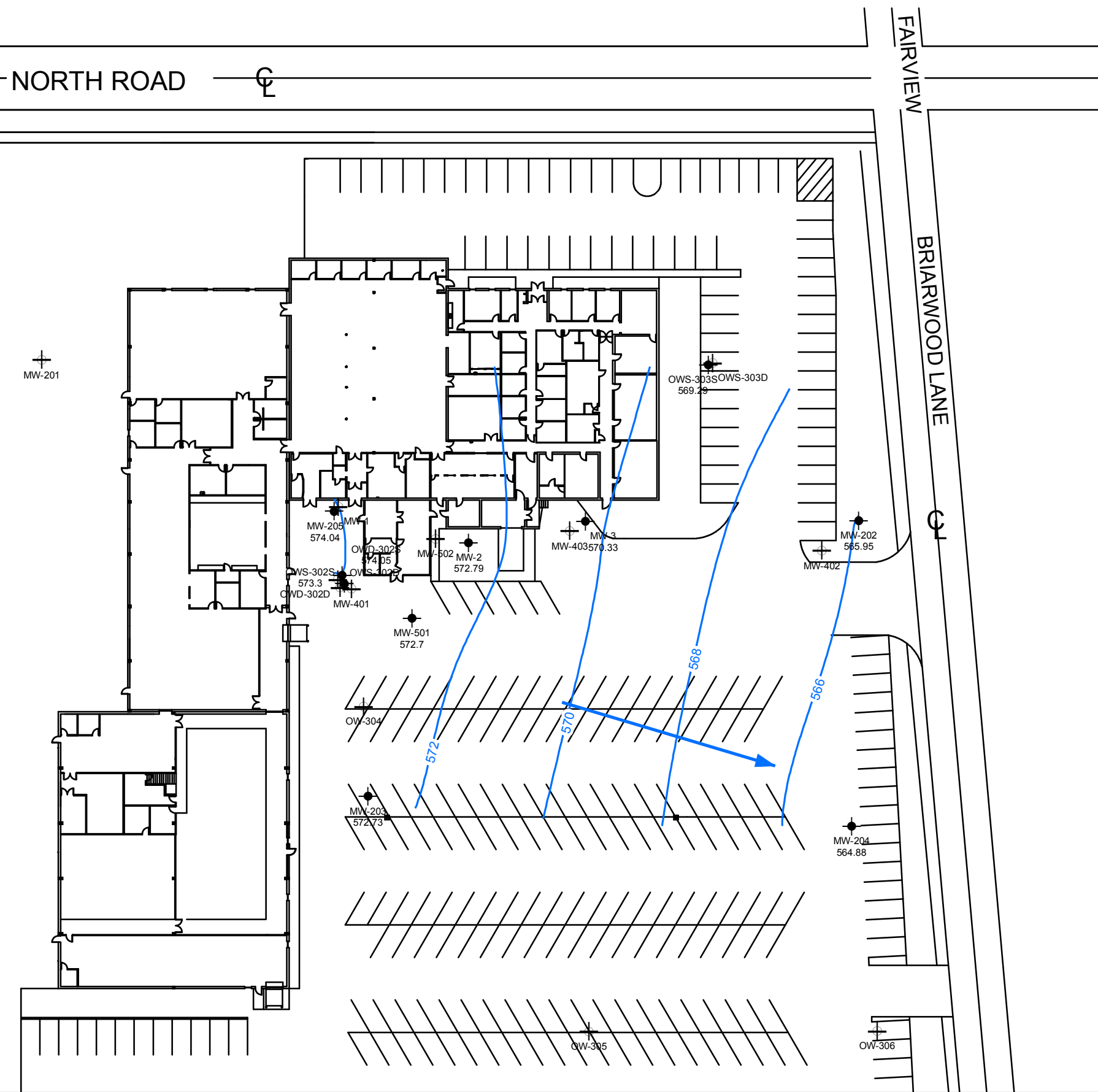
- PLAN BASED ON "ALTA/ASCM LAND TITLE SURVEY MAY" PREPARED BY RONALD W. STAUB LAND SURVEYORS, ROCHESTER, NEW YORK, DATED 17 DECEMBER 1996.
- GROUNDWATER CONTOURS ARE BASED ON DATA COLLECTED ON 21 APRIL 2010. ELEVATIONS SHOWN ONLY FOR THOSE WELLS APPLICABLE TO THE ISOPOTENTIAL CONTOURS DEVELOPED.
- EXPLORATION LOCATIONS ARE APPROXIMATE.

HALEY & ALDRICH COOPERVISION FACILITY INVESTIGATION
711 NORTH ROAD
SCOTTSVILLE, NEW YORK

**GROUNDWATER CONTOUR PLAN
(APRIL 2010)**

SCALE: AS SHOWN
JANUARY 2011

G:\Projects\70665011\ARCSIS\MXD\OCT10_GW_CONT.mxd

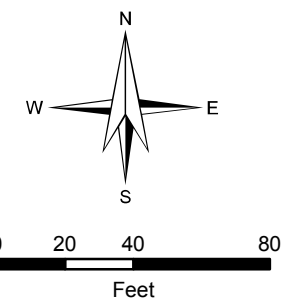


LEGEND:

- WELLS INCLUDED IN CONTOURS.
- WELLS NOT INCLUDED IN CONTOURS DUE TO SCREEN DEPTH, INCOMPLETE WELL INFORMATION, OR POOR WELL RECHARGE.
- GROUNDWATER FLOW DIRECTION

NOTES:

1. PLAN BASED ON "ALTA/ASCM LAND TITLE SURVEY MAY" PREPARED BY RONALD W. STAUB LAND SURVEYORS, ROCHESTER, NEW YORK, DATED 17 DECEMBER 1996.
2. GROUNDWATER CONTOURS ARE BASED ON DATA COLLECTED ON 18 OCTOBER 2010. ELEVATIONS SHOWN ONLY FOR THOSE WELLS APPLICABLE TO THE ISOPOTENTIAL CONTOURS DEVELOPED.
3. EXPLORATION LOCATIONS ARE APPROXIMATE.



HALEY & ALDRICH COOPERVISION FACILITY INVESTIGATION
711 NORTH ROAD
SCOTTSVILLE, NEW YORK

GROUNDWATER CONTOUR PLAN
(OCTOBER 2010)

SCALE: AS SHOWN
JANUARY 2011

S-3
1.6

T-16
0.007

APPROXIMATE LOCATION OF SUB-SLAB BARRIERS AFFECTING THE SYSTEM

1. VACUUM DIFFERENTIALS READ ON 19 OCTOBER 2010.
2. ** T-2 IS NOT A VALID TEST POINT.
3. ALL READINGS ARE IN "WC.
4. SEE TABLE V FOR NOTES AND COMMENTS.

FIGURE 3

APPENDIX A

Laboratory Analytical Reports

May 05, 2010

Service Request No: R1002162

Mr. Mark Ramsdell
Haley & Aldrich, Inc.
200 Town Centre Drive
Suite 2
Rochester, NY 14623-4264

Laboratory Results for: Coopervision/70665-001

Dear Mr. Ramsdell:

Enclosed are the results of the sample(s) submitted to our laboratory on April 22, 2010. For your reference, these analyses have been assigned our service request number **R1002162**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 134. You may also contact me via email at KBunker@caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.



Karen Bunker
Project Manager

CC: Claire DeBergalis

Page 1 of 67

COLUMBIA ANALYTICAL SERVICES, INC.

Client: Haley & Aldrich of New York
Project: Coopervision #70665-001 4/10
Sample Matrix: Water

Service Request No.: R1002162
Date Received: 4/22/10

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier II data deliverables. When appropriate to the method, method blank results have been reported with each analytical test. Surrogate recoveries have been reported for all applicable organic analyses. Additional quality control analyses reported herein include: Laboratory Control Sample (LCS).

Sample Receipt

Ten (10) water samples were collected on 4/21/10 by H&A and received for analysis at Columbia Analytical Services on 4/22/10. The samples were received in good condition and consistent with the accompanying chain of custody form. The cooler temperature upon receipt at the laboratory was 1.4-5.4°C within guidelines of 0-6°C.

General Chemistry Parameters & Metals

Five (5) water samples were analyzed for a client specific list of Anion and Cation parameters: Chloride, Sulfate, Total Alkalinity, Nitrate, Nitrite, Sulfide, Ferrous Iron, and Total Iron

All Method numbers are included on the data forms in the report.

All Initial and Continuing Calibration Criteria was met for all analyses.

Metals analyses are reported in ug/L in this report.

All holding times were met for these analyses except for the following samples: all Ferrous Iron aliquots were received outside of 24 hr hold time and were run as soon as possible upon receipt in the lab, Nitrate aliquots were run outside the 48 hour holding time for locations MW-205 (CAS R1002162-005), MW-3 (-006), MW-501(-009) and MW-502(-010) due to a laboratory error. All samples were run within 53 hours from collection. Nitrate analysis was run outside of the 48 hour holding time by 1 hour and 15 minutes for location MW-205 (-005) due to a lab error. Nitrate analysis for location OWS-302S (-008) was repeated outside of holding time due to an interfering peak which caused the sample to require reanalysis at a higher dilution.

Ferrous Iron for location MW-205 (R0906034-011) required a dilution due to interference from color in the sample matrix.

Batch QC is included in the report. All Blank Spike Recoveries were within QC limits.

All Laboratory Method Blanks were free from contamination.

No problems were encountered during the analysis of these samples.

Approved by



Date

5/6/10

000002

Volatile Organic Compounds

Ten (10) water samples including one (1) Trip Blank were analyzed for the TCL of Volatile Organics by GC/MS Method 8260B from SW-846. Five (5) water samples were analyzed for Dissolved Gases by modified GC Method RSK-175. One (1) water was analyzed for Metabolic Acids by HPLC methodology.

All Initial and Continuing Calibration Criteria was met for the analytical runs.

Batch QC is included in the report. All Laboratory Control Samples (LCS) recoveries were within QC acceptance limits.

Hits above the calibration range of the standards are flagged as "E" estimated. The sample is then repeated at the appropriate dilution for the hit. Both sets of data are included in the report. The subsequent dilution hits are flagged as "D".

All surrogate recoveries were within acceptance limits.

All samples were analyzed within the appropriate holding times. All vials are checked for preservation after analysis. All samples were found to be preserved to a pH of <2 or the samples were analyzed within 7 days from collection for unpreserved aliquots (locations MW-205 (-005) and MW-502 (-010). All CAS vials are certified as preserved. Matrix interference is suspected.

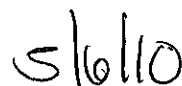
The Trip Blank and Laboratory Method Blanks were free from contamination.

No other problems were encountered during the analysis of these samples.

Approved by



Date



CASE NARRATIVE

This report contains analytical results for the following samples:
Service Request Number: R1002162

<u>Lab ID</u>	<u>Client ID</u>
R1002162-001	Trip Blank
R1002162-002	MW-202
R1002162-003	MW-203
R1002162-004	MW-204
R1002162-005	MW-205
R1002162-006	MW-3
R1002162-007	OW-306
R1002162-008	OWS-302S
R1002162-009	MW-501
R1002162-010	MW-502

REPORT QUALIFIERS

- U Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.
- J Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Aroclors).
- B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.
- E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.
- E Organics- Concentration has exceeded the calibration range for that specific analysis.
- D Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.
- * Indicates that a quality control parameter has exceeded laboratory limits.
- # Spike was diluted out.
- + Correlation coefficient for MSA is <0.995.
- N Inorganics- Matrix spike recovery was outside laboratory limits.
- N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
- S Concentration has been determined using Method of Standard Additions (MSA).
- W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
- P Pesticide/Aroclors: Concentration >40% (25% for CLP) difference between the two GC columns.
- C Confirmed by GC/MS
- Q DoD reports: indicates a pesticide/Aroclor is not confirmed ($\geq 100\%$ Difference between two GC columns).
- X See Case Narrative for discussion.



CAS/Rochester Lab ID # for State Certifications¹

NELAP Accredited	Nevada ID # NY-00032
Delaware Accredited	New Jersey ID # NY004
Connecticut ID # PH0556	New York ID # 10145
Florida ID # E87674	New Hampshire ID # 294100 A/B
Illinois ID #200047	Pennsylvania ID# 68-786
Maine ID #NY0032	Rhode Island ID # 158
Nebraska Accredited	West Virginia ID # 292
Navy Facilities Engineering Service Center Approved	

¹ Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable, except as noted in the laboratory case narrative provided. For a specific list of accredited analytes, refer to the certifications section at www.caslab.com.

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water
Sample Name: Trip Blank
Lab Code: R1002162-001

Service Request: R1002162
Date Collected: 4/21/10
Date Received: 4/22/10
Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Acetone	20	U	20	1	NA	4/28/10 13:30		198317	
Benzene	5.0	U	5.0	1	NA	4/28/10 13:30		198317	
Bromodichloromethane	5.0	U	5.0	1	NA	4/28/10 13:30		198317	
Bromoform	5.0	U	5.0	1	NA	4/28/10 13:30		198317	
Bromomethane	5.0	U	5.0	1	NA	4/28/10 13:30		198317	
2-Butanone (MEK)	10	U	10	1	NA	4/28/10 13:30		198317	
Carbon Disulfide	10	U	10	1	NA	4/28/10 13:30		198317	
Carbon Tetrachloride	5.0	U	5.0	1	NA	4/28/10 13:30		198317	
Chlorobenzene	5.0	U	5.0	1	NA	4/28/10 13:30		198317	
Chloroethane	5.0	U	5.0	1	NA	4/28/10 13:30		198317	
Chloroform	5.0	U	5.0	1	NA	4/28/10 13:30		198317	
Chloromethane	5.0	U	5.0	1	NA	4/28/10 13:30		198317	
Dibromochloromethane	5.0	U	5.0	1	NA	4/28/10 13:30		198317	
1,1-Dichloroethane	5.0	U	5.0	1	NA	4/28/10 13:30		198317	
1,2-Dichloroethane	5.0	U	5.0	1	NA	4/28/10 13:30		198317	
1,1-Dichloroethene	5.0	U	5.0	1	NA	4/28/10 13:30		198317	
cis-1,2-Dichloroethene	5.0	U	5.0	1	NA	4/28/10 13:30		198317	
trans-1,2-Dichloroethene	5.0	U	5.0	1	NA	4/28/10 13:30		198317	
1,2-Dichloropropane	5.0	U	5.0	1	NA	4/28/10 13:30		198317	
cis-1,3-Dichloropropene	5.0	U	5.0	1	NA	4/28/10 13:30		198317	
trans-1,3-Dichloropropene	5.0	U	5.0	1	NA	4/28/10 13:30		198317	
Ethylbenzene	5.0	U	5.0	1	NA	4/28/10 13:30		198317	
2-Hexanone	10	U	10	1	NA	4/28/10 13:30		198317	
Methylene Chloride	5.0	U	5.0	1	NA	4/28/10 13:30		198317	
4-Methyl-2-pentanone (MIBK)	10	U	10	1	NA	4/28/10 13:30		198317	
Styrene	5.0	U	5.0	1	NA	4/28/10 13:30		198317	
1,1,2,2-Tetrachloroethane	5.0	U	5.0	1	NA	4/28/10 13:30		198317	
Tetrachloroethene	5.0	U	5.0	1	NA	4/28/10 13:30		198317	
Toluene	5.0	U	5.0	1	NA	4/28/10 13:30		198317	
1,1,1-Trichloroethane	5.0	U	5.0	1	NA	4/28/10 13:30		198317	
1,1,2-Trichloroethane	5.0	U	5.0	1	NA	4/28/10 13:30		198317	
Trichloroethene	5.0	U	5.0	1	NA	4/28/10 13:30		198317	
Vinyl Chloride	5.0	U	5.0	1	NA	4/28/10 13:30		198317	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water
Sample Name: Trip Blank
Lab Code: R1002162-001

Service Request: R1002162
Date Collected: 4/21/10
Date Received: 4/22/10
Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
o-Xylene	5.0	U	5.0	1	NA	4/28/10 13:30		198317	
m,p-Xylenes	5.0	U	5.0	1	NA	4/28/10 13:30		198317	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q	Note
4-Bromofluorobenzene	100	85-122	4/28/10 13:30		
Toluene-d8	98	87-121	4/28/10 13:30		
Dibromofluoromethane	100	89-119	4/28/10 13:30		

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water
Sample Name: MW-202
Lab Code: R1002162-002

Service Request: R1002162
Date Collected: 4/21/10 1110
Date Received: 4/22/10
Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Acetone	20	U	20	1	NA	4/28/10 13:57		198317	
Benzene	5.0	U	5.0	1	NA	4/28/10 13:57		198317	
Bromodichloromethane	5.0	U	5.0	1	NA	4/28/10 13:57		198317	
Bromoform	5.0	U	5.0	1	NA	4/28/10 13:57		198317	
Bromomethane	5.0	U	5.0	1	NA	4/28/10 13:57		198317	
2-Butanone (MEK)	10	U	10	1	NA	4/28/10 13:57		198317	
Carbon Disulfide	10	U	10	1	NA	4/28/10 13:57		198317	
Carbon Tetrachloride	5.0	U	5.0	1	NA	4/28/10 13:57		198317	
Chlorobenzene	5.0	U	5.0	1	NA	4/28/10 13:57		198317	
Chloroethane	5.0	U	5.0	1	NA	4/28/10 13:57		198317	
Chloroform	5.0	U	5.0	1	NA	4/28/10 13:57		198317	
Chloromethane	5.0	U	5.0	1	NA	4/28/10 13:57		198317	
Dibromochloromethane	5.0	U	5.0	1	NA	4/28/10 13:57		198317	
1,1-Dichloroethane	13		5.0	1	NA	4/28/10 13:57		198317	
1,2-Dichloroethane	5.0	U	5.0	1	NA	4/28/10 13:57		198317	
1,1-Dichloroethene	8.3		5.0	1	NA	4/28/10 13:57		198317	
cis-1,2-Dichloroethene	5.0	U	5.0	1	NA	4/28/10 13:57		198317	
trans-1,2-Dichloroethene	5.0	U	5.0	1	NA	4/28/10 13:57		198317	
1,2-Dichloropropane	5.0	U	5.0	1	NA	4/28/10 13:57		198317	
cis-1,3-Dichloropropene	5.0	U	5.0	1	NA	4/28/10 13:57		198317	
trans-1,3-Dichloropropene	5.0	U	5.0	1	NA	4/28/10 13:57		198317	
Ethylbenzene	5.0	U	5.0	1	NA	4/28/10 13:57		198317	
2-Hexanone	10	U	10	1	NA	4/28/10 13:57		198317	
Methylene Chloride	5.0	U	5.0	1	NA	4/28/10 13:57		198317	
4-Methyl-2-pentanone (MIBK)	10	U	10	1	NA	4/28/10 13:57		198317	
Styrene	5.0	U	5.0	1	NA	4/28/10 13:57		198317	
1,1,2,2-Tetrachloroethane	5.0	U	5.0	1	NA	4/28/10 13:57		198317	
Tetrachloroethene	5.0	U	5.0	1	NA	4/28/10 13:57		198317	
Toluene	5.0	U	5.0	1	NA	4/28/10 13:57		198317	
1,1,1-Trichloroethane	5.0	U	5.0	1	NA	4/28/10 13:57		198317	
1,1,2-Trichloroethane	5.0	U	5.0	1	NA	4/28/10 13:57		198317	
Trichloroethene	5.0	U	5.0	1	NA	4/28/10 13:57		198317	
Vinyl Chloride	5.0	U	5.0	1	NA	4/28/10 13:57		198317	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water
Sample Name: MW-202
Lab Code: R1002162-002

Service Request: R1002162
Date Collected: 4/21/10 1110
Date Received: 4/22/10
Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
o-Xylene	5.0	U	5.0	1	NA	4/28/10 13:57		198317	
m,p-Xylenes	5.0	U	5.0	1	NA	4/28/10 13:57		198317	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q	Note
4-Bromofluorobenzene	103	85-122	4/28/10 13:57		
Toluene-d8	99	87-121	4/28/10 13:57		
Dibromofluoromethane	100	89-119	4/28/10 13:57		

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water
Sample Name: MW-203
Lab Code: R1002162-003

Service Request: R1002162
Date Collected: 4/21/10 1153
Date Received: 4/22/10
Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Acetone	20	U	20	1	NA	4/28/10 14:24		198317	
Benzene	5.0	U	5.0	1	NA	4/28/10 14:24		198317	
Bromodichloromethane	5.0	U	5.0	1	NA	4/28/10 14:24		198317	
Bromoform	5.0	U	5.0	1	NA	4/28/10 14:24		198317	
Bromomethane	5.0	U	5.0	1	NA	4/28/10 14:24		198317	
2-Butanone (MEK)	10	U	10	1	NA	4/28/10 14:24		198317	
Carbon Disulfide	10	U	10	1	NA	4/28/10 14:24		198317	
Carbon Tetrachloride	5.0	U	5.0	1	NA	4/28/10 14:24		198317	
Chlorobenzene	5.0	U	5.0	1	NA	4/28/10 14:24		198317	
Chloroethane	5.0	U	5.0	1	NA	4/28/10 14:24		198317	
Chloroform	5.0	U	5.0	1	NA	4/28/10 14:24		198317	
Chloromethane	5.0	U	5.0	1	NA	4/28/10 14:24		198317	
Dibromochloromethane	5.0	U	5.0	1	NA	4/28/10 14:24		198317	
1,1-Dichloroethane	5.0	U	5.0	1	NA	4/28/10 14:24		198317	
1,2-Dichloroethane	5.0	U	5.0	1	NA	4/28/10 14:24		198317	
1,1-Dichloroethene	5.0	U	5.0	1	NA	4/28/10 14:24		198317	
cis-1,2-Dichloroethene	5.0	U	5.0	1	NA	4/28/10 14:24		198317	
trans-1,2-Dichloroethene	5.0	U	5.0	1	NA	4/28/10 14:24		198317	
1,2-Dichloropropane	5.0	U	5.0	1	NA	4/28/10 14:24		198317	
cis-1,3-Dichloropropene	5.0	U	5.0	1	NA	4/28/10 14:24		198317	
trans-1,3-Dichloropropene	5.0	U	5.0	1	NA	4/28/10 14:24		198317	
Ethylbenzene	5.0	U	5.0	1	NA	4/28/10 14:24		198317	
2-Hexanone	10	U	10	1	NA	4/28/10 14:24		198317	
Methylene Chloride	5.0	U	5.0	1	NA	4/28/10 14:24		198317	
4-Methyl-2-pentanone (MIBK)	10	U	10	1	NA	4/28/10 14:24		198317	
Styrene	5.0	U	5.0	1	NA	4/28/10 14:24		198317	
1,1,2,2-Tetrachloroethane	5.0	U	5.0	1	NA	4/28/10 14:24		198317	
Tetrachloroethene	5.0	U	5.0	1	NA	4/28/10 14:24		198317	
Toluene	5.0	U	5.0	1	NA	4/28/10 14:24		198317	
1,1,1-Trichloroethane	5.0	U	5.0	1	NA	4/28/10 14:24		198317	
1,1,2-Trichloroethane	5.0	U	5.0	1	NA	4/28/10 14:24		198317	
Trichloroethene	5.0	U	5.0	1	NA	4/28/10 14:24		198317	
Vinyl Chloride	5.0	U	5.0	1	NA	4/28/10 14:24		198317	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water
Sample Name: MW-203
Lab Code: R1002162-003

Service Request: R1002162
Date Collected: 4/21/10 1153
Date Received: 4/22/10
Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
o-Xylene	5.0	U	5.0	1	NA	4/28/10 14:24		198317	
m,p-Xylenes	5.0	U	5.0	1	NA	4/28/10 14:24		198317	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q	Note
4-Bromofluorobenzene	103	85-122	4/28/10 14:24		
Toluene-d8	97	87-121	4/28/10 14:24		
Dibromofluoromethane	98	89-119	4/28/10 14:24		

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water
Sample Name: MW-204
Lab Code: R1002162-004

Service Request: R1002162
Date Collected: 4/21/10 1020
Date Received: 4/22/10
Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Acetone	20	U	20	1	NA	4/28/10 14:51		198317	
Benzene	5.0	U	5.0	1	NA	4/28/10 14:51		198317	
Bromodichloromethane	5.0	U	5.0	1	NA	4/28/10 14:51		198317	
Bromoform	5.0	U	5.0	1	NA	4/28/10 14:51		198317	
Bromomethane	5.0	U	5.0	1	NA	4/28/10 14:51		198317	
2-Butanone (MEK)	10	U	10	1	NA	4/28/10 14:51		198317	
Carbon Disulfide	10	U	10	1	NA	4/28/10 14:51		198317	
Carbon Tetrachloride	5.0	U	5.0	1	NA	4/28/10 14:51		198317	
Chlorobenzene	5.0	U	5.0	1	NA	4/28/10 14:51		198317	
Chloroethane	5.0	U	5.0	1	NA	4/28/10 14:51		198317	
Chloroform	5.0	U	5.0	1	NA	4/28/10 14:51		198317	
Chloromethane	5.0	U	5.0	1	NA	4/28/10 14:51		198317	
Dibromochloromethane	5.0	U	5.0	1	NA	4/28/10 14:51		198317	
1,1-Dichloroethane	5.5		5.0	1	NA	4/28/10 14:51		198317	
1,2-Dichloroethane	5.0	U	5.0	1	NA	4/28/10 14:51		198317	
1,1-Dichloroethene	5.3		5.0	1	NA	4/28/10 14:51		198317	
cis-1,2-Dichloroethene	5.0	U	5.0	1	NA	4/28/10 14:51		198317	
trans-1,2-Dichloroethene	5.0	U	5.0	1	NA	4/28/10 14:51		198317	
1,2-Dichloropropane	5.0	U	5.0	1	NA	4/28/10 14:51		198317	
cis-1,3-Dichloropropene	5.0	U	5.0	1	NA	4/28/10 14:51		198317	
trans-1,3-Dichloropropene	5.0	U	5.0	1	NA	4/28/10 14:51		198317	
Ethylbenzene	5.0	U	5.0	1	NA	4/28/10 14:51		198317	
2-Hexanone	10	U	10	1	NA	4/28/10 14:51		198317	
Methylene Chloride	5.0	U	5.0	1	NA	4/28/10 14:51		198317	
4-Methyl-2-pentanone (MIBK)	10	U	10	1	NA	4/28/10 14:51		198317	
Styrene	5.0	U	5.0	1	NA	4/28/10 14:51		198317	
1,1,2,2-Tetrachloroethane	5.0	U	5.0	1	NA	4/28/10 14:51		198317	
Tetrachloroethene	5.0	U	5.0	1	NA	4/28/10 14:51		198317	
Toluene	5.0	U	5.0	1	NA	4/28/10 14:51		198317	
1,1,1-Trichloroethane	5.0	U	5.0	1	NA	4/28/10 14:51		198317	
1,1,2-Trichloroethane	5.0	U	5.0	1	NA	4/28/10 14:51		198317	
Trichloroethene	5.0	U	5.0	1	NA	4/28/10 14:51		198317	
Vinyl Chloride	5.0	U	5.0	1	NA	4/28/10 14:51		198317	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water
Sample Name: MW-204
Lab Code: R1002162-004

Service Request: R1002162
Date Collected: 4/21/10 1020
Date Received: 4/22/10
Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
o-Xylene	5.0	U	5.0	1	NA	4/28/10 14:51		198317	
m,p-Xylenes	5.0	U	5.0	1	NA	4/28/10 14:51		198317	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q	Note
4-Bromofluorobenzene	105	85-122	4/28/10 14:51		
Toluene-d8	100	87-121	4/28/10 14:51		
Dibromofluoromethane	101	89-119	4/28/10 14:51		

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water
Sample Name: MW-205
Lab Code: R1002162-005

Service Request: R1002162
Date Collected: 4/21/10 1635
Date Received: 4/22/10

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed
Alkalinity as CaCO ₃ , Total	SM 2320 B	2610		mg/L	2.0	1	NA	4/29/10 15:36
Chloride	9056	659		mg/L	20	100	NA	4/27/10 11:52
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	10	U	mg/L	10	100	NA	4/22/10 18:10
Nitrate as Nitrogen	9056	0.50	U	mg/L	0.50	10	NA	4/23/10 14:50
Nitrite as Nitrogen	9056	2.0		mg/L	1.0	20	NA	4/23/10 17:50
Sulfate	9056	8.8		mg/L	2.0	10	NA	4/23/10 14:50
Sulfide, Acid-Soluble	9034	1.6		mg/L	1.0	1	4/26/10	4/26/10 07:30

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water
Sample Name: MW-205
Lab Code: R1002162-005

Service Request: R1002162
Date Collected: 4/21/10 1635
Date Received: 4/22/10

Basis: NA

Iron, Total, by Inductively Coupled Plasma-Atomic Emission Spectrometry

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed
Iron, Total	6010B	117000	µg/L	1000	10	4/27/10	5/4/10 10:20

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water
Sample Name: MW-205
Lab Code: R1002162-005

Service Request: R1002162
Date Collected: 4/21/10 1635
Date Received: 4/22/10

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Acetone	20000	U	20000	1000	NA	4/28/10 15:19		198317	
Benzene	5000	U	5000	1000	NA	4/28/10 15:19		198317	
Bromodichloromethane	5000	U	5000	1000	NA	4/28/10 15:19		198317	
Bromoform	5000	U	5000	1000	NA	4/28/10 15:19		198317	
Bromomethane	5000	U	5000	1000	NA	4/28/10 15:19		198317	
2-Butanone (MEK)	10000	U	10000	1000	NA	4/28/10 15:19		198317	
Carbon Disulfide	10000	U	10000	1000	NA	4/28/10 15:19		198317	
Carbon Tetrachloride	5000	U	5000	1000	NA	4/28/10 15:19		198317	
Chlorobenzene	5000	U	5000	1000	NA	4/28/10 15:19		198317	
Chloroethane	5000	U	5000	1000	NA	4/28/10 15:19		198317	
Chloroform	5000	U	5000	1000	NA	4/28/10 15:19		198317	
Chloromethane	5000	U	5000	1000	NA	4/28/10 15:19		198317	
Dibromochloromethane	5000	U	5000	1000	NA	4/28/10 15:19		198317	
1,1-Dichloroethane	240000	E	5000	1000	NA	4/28/10 15:19		198317	
1,2-Dichloroethane	5000	U	5000	1000	NA	4/28/10 15:19		198317	
1,1-Dichloroethene	5000	U	5000	1000	NA	4/28/10 15:19		198317	
cis-1,2-Dichloroethene	5000	U	5000	1000	NA	4/28/10 15:19		198317	
trans-1,2-Dichloroethene	5000	U	5000	1000	NA	4/28/10 15:19		198317	
1,2-Dichloropropane	5000	U	5000	1000	NA	4/28/10 15:19		198317	
cis-1,3-Dichloropropene	5000	U	5000	1000	NA	4/28/10 15:19		198317	
trans-1,3-Dichloropropene	5000	U	5000	1000	NA	4/28/10 15:19		198317	
Ethylbenzene	5000	U	5000	1000	NA	4/28/10 15:19		198317	
2-Hexanone	10000	U	10000	1000	NA	4/28/10 15:19		198317	
Methylene Chloride	5000	U	5000	1000	NA	4/28/10 15:19		198317	
4-Methyl-2-pentanone (MIBK)	10000	U	10000	1000	NA	4/28/10 15:19		198317	
Styrene	5000	U	5000	1000	NA	4/28/10 15:19		198317	
1,1,2,2-Tetrachloroethane	5000	U	5000	1000	NA	4/28/10 15:19		198317	
Tetrachloroethene	5000	U	5000	1000	NA	4/28/10 15:19		198317	
Toluene	5000	U	5000	1000	NA	4/28/10 15:19		198317	
1,1,1-Trichloroethane	140000		5000	1000	NA	4/28/10 15:19		198317	
1,1,2-Trichloroethane	5000	U	5000	1000	NA	4/28/10 15:19		198317	
Trichloroethene	5000	U	5000	1000	NA	4/28/10 15:19		198317	
Vinyl Chloride	5000	U	5000	1000	NA	4/28/10 15:19		198317	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water
Sample Name: MW-205
Lab Code: R1002162-005

Service Request: R1002162
Date Collected: 4/21/10 1635
Date Received: 4/22/10
Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
o-Xylene	5000	U	5000	1000	NA	4/28/10 15:19		198317	
m,p-Xylenes	5000	U	5000	1000	NA	4/28/10 15:19		198317	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q	Note
4-Bromofluorobenzene	103	85-122	4/28/10 15:19		
Toluene-d8	97	87-121	4/28/10 15:19		
Dibromofluoromethane	99	89-119	4/28/10 15:19		

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water
Sample Name: MW-205
Lab Code: R1002162-005
Run Type: Dilution

Service Request: R1002162
Date Collected: 4/21/10 1635
Date Received: 4/22/10

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Acetone	100000	U	100000	5000	NA	4/29/10 11:48		198480	
Benzene	25000	U	25000	5000	NA	4/29/10 11:48		198480	
Bromodichloromethane	25000	U	25000	5000	NA	4/29/10 11:48		198480	
Bromoform	25000	U	25000	5000	NA	4/29/10 11:48		198480	
Bromomethane	25000	U	25000	5000	NA	4/29/10 11:48		198480	
2-Butanone (MEK)	50000	U	50000	5000	NA	4/29/10 11:48		198480	
Carbon Disulfide	50000	U	50000	5000	NA	4/29/10 11:48		198480	
Carbon Tetrachloride	25000	U	25000	5000	NA	4/29/10 11:48		198480	
Chlorobenzene	25000	U	25000	5000	NA	4/29/10 11:48		198480	
Chloroethane	25000	U	25000	5000	NA	4/29/10 11:48		198480	
Chloroform	25000	U	25000	5000	NA	4/29/10 11:48		198480	
Chloromethane	25000	U	25000	5000	NA	4/29/10 11:48		198480	
Dibromochloromethane	25000	U	25000	5000	NA	4/29/10 11:48		198480	
1,1-Dichloroethane	230000	D	25000	5000	NA	4/29/10 11:48		198480	
1,2-Dichloroethane	25000	U	25000	5000	NA	4/29/10 11:48		198480	
1,1-Dichloroethene	25000	U	25000	5000	NA	4/29/10 11:48		198480	
cis-1,2-Dichloroethene	25000	U	25000	5000	NA	4/29/10 11:48		198480	
trans-1,2-Dichloroethene	25000	U	25000	5000	NA	4/29/10 11:48		198480	
1,2-Dichloropropane	25000	U	25000	5000	NA	4/29/10 11:48		198480	
cis-1,3-Dichloropropene	25000	U	25000	5000	NA	4/29/10 11:48		198480	
trans-1,3-Dichloropropene	25000	U	25000	5000	NA	4/29/10 11:48		198480	
Ethylbenzene	25000	U	25000	5000	NA	4/29/10 11:48		198480	
2-Hexanone	50000	U	50000	5000	NA	4/29/10 11:48		198480	
Methylene Chloride	25000	U	25000	5000	NA	4/29/10 11:48		198480	
4-Methyl-2-pentanone (MIBK)	50000	U	50000	5000	NA	4/29/10 11:48		198480	
Styrene	25000	U	25000	5000	NA	4/29/10 11:48		198480	
1,1,2,2-Tetrachloroethane	25000	U	25000	5000	NA	4/29/10 11:48		198480	
Tetrachloroethene	25000	U	25000	5000	NA	4/29/10 11:48		198480	
Toluene	25000	U	25000	5000	NA	4/29/10 11:48		198480	
1,1,1-Trichloroethane	130000	D	25000	5000	NA	4/29/10 11:48		198480	
1,1,2-Trichloroethane	25000	U	25000	5000	NA	4/29/10 11:48		198480	
Trichloroethene	25000	U	25000	5000	NA	4/29/10 11:48		198480	
Vinyl Chloride	25000	U	25000	5000	NA	4/29/10 11:48		198480	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water
Sample Name: MW-205
Lab Code: R1002162-005
Run Type: Dilution

Service Request: R1002162
Date Collected: 4/21/10 1635
Date Received: 4/22/10
Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
o-Xylene	25000	U	25000	5000	NA	4/29/10 11:48		198480	
m,p-Xylenes	25000	U	25000	5000	NA	4/29/10 11:48		198480	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q	Note
4-Bromofluorobenzene	102	85-122	4/29/10 11:48		
Toluene-d8	94	87-121	4/29/10 11:48		
Dibromofluoromethane	95	89-119	4/29/10 11:48		

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water
Sample Name: MW-205
Lab Code: R1002162-005

Service Request: R1002162
Date Collected: 4/21/10 1635
Date Received: 4/22/10
Units: µg/L
Basis: NA

Dissolved Gases by GC/FID

Analytical Method: RSK 175

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Analysis		
							Lot	Lot	Note
Ethane	13		1.0	1	NA	4/27/10 08:56		198160	
Ethylene	12		1.0	1	NA	4/27/10 08:56		198160	
Methane	11		2.0	1	NA	4/27/10 08:56		198160	
Propane	1.0	U	1.0	1	NA	4/27/10 08:56		198160	

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water
Sample Name: MW-205
Lab Code: R1002162-005

Service Request: R1002162
Date Collected: 4/21/10 1635
Date Received: 4/22/10
Units: mg/L
Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC)

Analytical Method: Organic Acids

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Analysis		
							Lot	Lot	Note
Pyruvic Acid	10	U	10	20	NA	4/29/10 14:45		198263	
Acetic Acid	310		20	20	NA	4/29/10 14:45		198263	
Butyric Acid	1800		40	20	NA	4/29/10 14:45		198263	
Lactic Acid	20	U	20	20	NA	4/29/10 14:45		198263	
Propionic Acid	820		20	20	NA	4/29/10 14:45		198263	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water
Sample Name: MW-3
Lab Code: R1002162-006

Service Request: R1002162
Date Collected: 4/21/10 1025
Date Received: 4/22/10

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed
Alkalinity as CaCO ₃ , Total	SM 2320 B	205		mg/L	2.0	1	NA	4/29/10 08:34
Chloride	9056	257		mg/L	8.0	40	NA	4/27/10 12:34
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	0.10	U	mg/L	0.10	1	NA	4/22/10 18:10
Nitrate as Nitrogen	9056	1.00		mg/L	0.50	10	NA	4/23/10 15:07
Nitrite as Nitrogen	9056	0.50	U	mg/L	0.50	10	NA	4/23/10 15:07
Sulfate	9056	2.6		mg/L	2.0	10	NA	4/23/10 15:07
Sulfide, Acid-Soluble	9034	1.5		mg/L	1.0	1	4/26/10	4/26/10 07:30

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water
Sample Name: MW-3
Lab Code: R1002162-006

Service Request: R1002162
Date Collected: 4/21/10 1025
Date Received: 4/22/10

Basis: NA

Iron, Total, by Inductively Coupled Plasma-Atomic Emission Spectrometry

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed
Iron, Total	6010B	21800	µg/L	100	1	4/27/10	4/28/10 22:06

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water
Sample Name: MW-3
Lab Code: R1002162-006

Service Request: R1002162
Date Collected: 4/21/10 1025
Date Received: 4/22/10
Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Acetone	200	U	200	10	NA	4/28/10 15:46		198317	
Benzene	50	U	50	10	NA	4/28/10 15:46		198317	
Bromodichloromethane	50	U	50	10	NA	4/28/10 15:46		198317	
Bromoform	50	U	50	10	NA	4/28/10 15:46		198317	
Bromomethane	50	U	50	10	NA	4/28/10 15:46		198317	
2-Butanone (MEK)	100	U	100	10	NA	4/28/10 15:46		198317	
Carbon Disulfide	100	U	100	10	NA	4/28/10 15:46		198317	
Carbon Tetrachloride	50	U	50	10	NA	4/28/10 15:46		198317	
Chlorobenzene	50	U	50	10	NA	4/28/10 15:46		198317	
Chloroethane	1000		50	10	NA	4/28/10 15:46		198317	
Chloroform	50	U	50	10	NA	4/28/10 15:46		198317	
Chloromethane	50	U	50	10	NA	4/28/10 15:46		198317	
Dibromochloromethane	50	U	50	10	NA	4/28/10 15:46		198317	
1,1-Dichloroethane	100		50	10	NA	4/28/10 15:46		198317	
1,2-Dichloroethane	50	U	50	10	NA	4/28/10 15:46		198317	
1,1-Dichloroethene	50	U	50	10	NA	4/28/10 15:46		198317	
cis-1,2-Dichloroethene	50	U	50	10	NA	4/28/10 15:46		198317	
trans-1,2-Dichloroethene	50	U	50	10	NA	4/28/10 15:46		198317	
1,2-Dichloropropane	50	U	50	10	NA	4/28/10 15:46		198317	
cis-1,3-Dichloropropene	50	U	50	10	NA	4/28/10 15:46		198317	
trans-1,3-Dichloropropene	50	U	50	10	NA	4/28/10 15:46		198317	
Ethylbenzene	50	U	50	10	NA	4/28/10 15:46		198317	
2-Hexanone	100	U	100	10	NA	4/28/10 15:46		198317	
Methylene Chloride	50	U	50	10	NA	4/28/10 15:46		198317	
4-Methyl-2-pentanone (MIBK)	100	U	100	10	NA	4/28/10 15:46		198317	
Styrene	50	U	50	10	NA	4/28/10 15:46		198317	
1,1,2,2-Tetrachloroethane	50	U	50	10	NA	4/28/10 15:46		198317	
Tetrachloroethene	50	U	50	10	NA	4/28/10 15:46		198317	
Toluene	50	U	50	10	NA	4/28/10 15:46		198317	
1,1,1-Trichloroethane	50	U	50	10	NA	4/28/10 15:46		198317	
1,1,2-Trichloroethane	50	U	50	10	NA	4/28/10 15:46		198317	
Trichloroethene	50	U	50	10	NA	4/28/10 15:46		198317	
Vinyl Chloride	250		50	10	NA	4/28/10 15:46		198317	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water
Sample Name: MW-3
Lab Code: R1002162-006

Service Request: R1002162
Date Collected: 4/21/10 1025
Date Received: 4/22/10
Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
o-Xylene	50	U	50	10	NA	4/28/10 15:46		198317	
m,p-Xylenes	50	U	50	10	NA	4/28/10 15:46		198317	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q	Note
4-Bromofluorobenzene	100	85-122	4/28/10 15:46		
Toluene-d8	95	87-121	4/28/10 15:46		
Dibromofluoromethane	98	89-119	4/28/10 15:46		

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water
Sample Name: MW-3
Lab Code: R1002162-006

Service Request: R1002162
Date Collected: 4/21/10 1025
Date Received: 4/22/10
Units: µg/L
Basis: NA

Dissolved Gases by GC/FID

Analytical Method: RSK 175

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Ethane	10	U	10	10	NA	4/27/10 09:07		198160	
Ethylene	20		10	10	NA	4/27/10 09:07		198160	
Methane	930		20	10	NA	4/27/10 09:07		198160	
Propane	10	U	10	10	NA	4/27/10 09:07		198160	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water
Sample Name: OW-306
Lab Code: R1002162-007

Service Request: R1002162
Date Collected: 4/21/10 0936
Date Received: 4/22/10
Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Acetone	20	U	20	1	NA	4/28/10 16:14		198317	
Benzene	5.0	U	5.0	1	NA	4/28/10 16:14		198317	
Bromodichloromethane	5.0	U	5.0	1	NA	4/28/10 16:14		198317	
Bromoform	5.0	U	5.0	1	NA	4/28/10 16:14		198317	
Bromomethane	5.0	U	5.0	1	NA	4/28/10 16:14		198317	
2-Butanone (MEK)	10	U	10	1	NA	4/28/10 16:14		198317	
Carbon Disulfide	10	U	10	1	NA	4/28/10 16:14		198317	
Carbon Tetrachloride	5.0	U	5.0	1	NA	4/28/10 16:14		198317	
Chlorobenzene	5.0	U	5.0	1	NA	4/28/10 16:14		198317	
Chloroethane	5.0	U	5.0	1	NA	4/28/10 16:14		198317	
Chloroform	5.0	U	5.0	1	NA	4/28/10 16:14		198317	
Chloromethane	5.0	U	5.0	1	NA	4/28/10 16:14		198317	
Dibromochloromethane	5.0	U	5.0	1	NA	4/28/10 16:14		198317	
1,1-Dichloroethane	5.0	U	5.0	1	NA	4/28/10 16:14		198317	
1,2-Dichloroethane	5.0	U	5.0	1	NA	4/28/10 16:14		198317	
1,1-Dichloroethene	5.0	U	5.0	1	NA	4/28/10 16:14		198317	
cis-1,2-Dichloroethene	5.0	U	5.0	1	NA	4/28/10 16:14		198317	
trans-1,2-Dichloroethene	5.0	U	5.0	1	NA	4/28/10 16:14		198317	
1,2-Dichloropropane	5.0	U	5.0	1	NA	4/28/10 16:14		198317	
cis-1,3-Dichloropropene	5.0	U	5.0	1	NA	4/28/10 16:14		198317	
trans-1,3-Dichloropropene	5.0	U	5.0	1	NA	4/28/10 16:14		198317	
Ethylbenzene	5.0	U	5.0	1	NA	4/28/10 16:14		198317	
2-Hexanone	10	U	10	1	NA	4/28/10 16:14		198317	
Methylene Chloride	5.0	U	5.0	1	NA	4/28/10 16:14		198317	
4-Methyl-2-pentanone (MIBK)	10	U	10	1	NA	4/28/10 16:14		198317	
Styrene	5.0	U	5.0	1	NA	4/28/10 16:14		198317	
1,1,2,2-Tetrachloroethane	5.0	U	5.0	1	NA	4/28/10 16:14		198317	
Tetrachloroethene	5.0	U	5.0	1	NA	4/28/10 16:14		198317	
Toluene	5.0	U	5.0	1	NA	4/28/10 16:14		198317	
1,1,1-Trichloroethane	5.0	U	5.0	1	NA	4/28/10 16:14		198317	
1,1,2-Trichloroethane	5.0	U	5.0	1	NA	4/28/10 16:14		198317	
Trichloroethene	5.0	U	5.0	1	NA	4/28/10 16:14		198317	
Vinyl Chloride	5.0	U	5.0	1	NA	4/28/10 16:14		198317	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water
Sample Name: OW-306
Lab Code: R1002162-007

Service Request: R1002162
Date Collected: 4/21/10 0936
Date Received: 4/22/10
Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
o-Xylene	5.0	U	5.0	1	NA	4/28/10 16:14		198317	
m,p-Xylenes	5.0	U	5.0	1	NA	4/28/10 16:14		198317	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q	Note
4-Bromofluorobenzene	103	85-122	4/28/10 16:14		
Toluene-d8	97	87-121	4/28/10 16:14		
Dibromofluoromethane	99	89-119	4/28/10 16:14		

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water
Sample Name: OWS-302S
Lab Code: R1002162-008

Service Request: R1002162
Date Collected: 4/21/10 1440
Date Received: 4/22/10

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed
Alkalinity as CaCO ₃ , Total	SM 2320 B	1210		mg/L	2.0	1	NA	4/29/10 15:36
Chloride	9056	3070		mg/L	200	1000	NA	4/27/10 11:18
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	0.10	U	mg/L	0.10	1	NA	4/22/10 18:10
Nitrate as Nitrogen	9056	0.50	U	mg/L	0.50	10	NA	4/23/10 14:34
Nitrite as Nitrogen	9056	5.0	U	mg/L	5.0	100	NA	4/27/10 10:40
Sulfate	9056	44.9		mg/L	2.0	10	NA	4/23/10 14:34
Sulfide, Acid-Soluble	9034	1.2		mg/L	1.0	1	4/26/10	4/26/10 07:30

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water
Sample Name: OWS-302S
Lab Code: R1002162-008

Service Request: R1002162
Date Collected: 4/21/10 1440
Date Received: 4/22/10

Basis: NA

Iron, Total, by Inductively Coupled Plasma-Atomic Emission Spectrometry

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed
Iron, Total	6010B	18100	µg/L	100	1	4/27/10	4/28/10 22:12

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/70665-001
 Sample Matrix: Water
 Sample Name: OWS-302S
 Lab Code: R1002162-008

Service Request: R1002162
 Date Collected: 4/21/10 1440
 Date Received: 4/22/10
 Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Acetone	10000	U	10000	500	NA	4/28/10 16:41		198317	
Benzene	2500	U	2500	500	NA	4/28/10 16:41		198317	
Bromodichloromethane	2500	U	2500	500	NA	4/28/10 16:41		198317	
Bromoform	2500	U	2500	500	NA	4/28/10 16:41		198317	
Bromomethane	2500	U	2500	500	NA	4/28/10 16:41		198317	
2-Butanone (MEK)	5000	U	5000	500	NA	4/28/10 16:41		198317	
Carbon Disulfide	5000	U	5000	500	NA	4/28/10 16:41		198317	
Carbon Tetrachloride	2500	U	2500	500	NA	4/28/10 16:41		198317	
Chlorobenzene	2500	U	2500	500	NA	4/28/10 16:41		198317	
Chloroethane	30000		2500	500	NA	4/28/10 16:41		198317	
Chloroform	2500	U	2500	500	NA	4/28/10 16:41		198317	
Chloromethane	2500	U	2500	500	NA	4/28/10 16:41		198317	
Dibromochloromethane	2500	U	2500	500	NA	4/28/10 16:41		198317	
1,1-Dichloroethane	56000		2500	500	NA	4/28/10 16:41		198317	
1,2-Dichloroethane	2500	U	2500	500	NA	4/28/10 16:41		198317	
1,1-Dichloroethene	2500	U	2500	500	NA	4/28/10 16:41		198317	
cis-1,2-Dichloroethene	2500	U	2500	500	NA	4/28/10 16:41		198317	
trans-1,2-Dichloroethene	2500	U	2500	500	NA	4/28/10 16:41		198317	
1,2-Dichloropropane	2500	U	2500	500	NA	4/28/10 16:41		198317	
cis-1,3-Dichloropropene	2500	U	2500	500	NA	4/28/10 16:41		198317	
trans-1,3-Dichloropropene	2500	U	2500	500	NA	4/28/10 16:41		198317	
Ethylbenzene	2500	U	2500	500	NA	4/28/10 16:41		198317	
2-Hexanone	5000	U	5000	500	NA	4/28/10 16:41		198317	
Methylene Chloride	2500	U	2500	500	NA	4/28/10 16:41		198317	
4-Methyl-2-pentanone (MIBK)	5000	U	5000	500	NA	4/28/10 16:41		198317	
Styrene	2500	U	2500	500	NA	4/28/10 16:41		198317	
1,1,2,2-Tetrachloroethane	2500	U	2500	500	NA	4/28/10 16:41		198317	
Tetrachloroethene	2500	U	2500	500	NA	4/28/10 16:41		198317	
Toluene	2500	U	2500	500	NA	4/28/10 16:41		198317	
1,1,1-Trichloroethane	2500	U	2500	500	NA	4/28/10 16:41		198317	
1,1,2-Trichloroethane	2500	U	2500	500	NA	4/28/10 16:41		198317	
Trichloroethene	2500	U	2500	500	NA	4/28/10 16:41		198317	
Vinyl Chloride	2500	U	2500	500	NA	4/28/10 16:41		198317	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water
Sample Name: OWS-302S
Lab Code: R1002162-008

Service Request: R1002162
Date Collected: 4/21/10 1440
Date Received: 4/22/10
Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
o-Xylene	2500	U	2500	500	NA	4/28/10 16:41		198317	
m,p-Xylenes	2500	U	2500	500	NA	4/28/10 16:41		198317	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q	Note
4-Bromofluorobenzene	104	85-122	4/28/10 16:41		
Toluene-d8	99	87-121	4/28/10 16:41		
Dibromofluoromethane	101	89-119	4/28/10 16:41		

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water
Sample Name: OWS-302S
Lab Code: R1002162-008

Service Request: R1002162
Date Collected: 4/21/10 1440
Date Received: 4/22/10
Units: µg/L
Basis: NA

Dissolved Gases by GC/FID

Analytical Method: RSK 175

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Analysis		
							Lot	Lot	Note
Ethane	10	U	10	10	NA	4/27/10 11:00		198160	
Ethylene	10	U	10	10	NA	4/27/10 11:00		198160	
Methane	930		20	10	NA	4/27/10 11:00		198160	
Propane	10	U	10	10	NA	4/27/10 11:00		198160	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water
Sample Name: MW-501
Lab Code: R1002162-009

Service Request: R1002162
Date Collected: 4/21/10 1335
Date Received: 4/22/10

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed
Alkalinity as CaCO ₃ , Total	SM 2320 B	229		mg/L	2.0	1	NA	4/29/10 08:34
Chloride	9056	7010		mg/L	400	2000	NA	4/27/10 13:16
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	0.10	U	mg/L	0.10	1	NA	4/22/10 18:10
Nitrate as Nitrogen	9056	0.84		mg/L	0.50	10	NA	4/23/10 15:23
Nitrite as Nitrogen	9056	5.0	U	mg/L	5.0	100	NA	4/23/10 18:55
Sulfate	9056	99.9		mg/L	2.0	10	NA	4/23/10 15:23
Sulfide, Acid-Soluble	9034	1.0	U	mg/L	1.0	1	4/26/10	4/26/10 07:30

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water
Sample Name: MW-501
Lab Code: R1002162-009

Service Request: R1002162
Date Collected: 4/21/10 1335
Date Received: 4/22/10

Basis: NA

Iron, Total, by Inductively Coupled Plasma-Atomic Emission Spectrometry

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed
Iron, Total	6010B	13900		µg/L	100	1	4/27/10	4/28/10 22:18

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/70665-001
 Sample Matrix: Water
 Sample Name: MW-501
 Lab Code: R1002162-009

Service Request: R1002162
 Date Collected: 4/21/10 1335
 Date Received: 4/22/10
 Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Acetone	50	U	50	2.5	NA	4/28/10 17:08		198317	
Benzene	13	U	13	2.5	NA	4/28/10 17:08		198317	
Bromodichloromethane	13	U	13	2.5	NA	4/28/10 17:08		198317	
Bromoform	13	U	13	2.5	NA	4/28/10 17:08		198317	
Bromomethane	13	U	13	2.5	NA	4/28/10 17:08		198317	
2-Butanone (MEK)	25	U	25	2.5	NA	4/28/10 17:08		198317	
Carbon Disulfide	25	U	25	2.5	NA	4/28/10 17:08		198317	
Carbon Tetrachloride	13	U	13	2.5	NA	4/28/10 17:08		198317	
Chlorobenzene	13	U	13	2.5	NA	4/28/10 17:08		198317	
Chloroethane	460		13	2.5	NA	4/28/10 17:08		198317	
Chloroform	13	U	13	2.5	NA	4/28/10 17:08		198317	
Chloromethane	13	U	13	2.5	NA	4/28/10 17:08		198317	
Dibromochloromethane	13	U	13	2.5	NA	4/28/10 17:08		198317	
1,1-Dichloroethane	88		13	2.5	NA	4/28/10 17:08		198317	
1,2-Dichloroethane	13	U	13	2.5	NA	4/28/10 17:08		198317	
1,1-Dichloroethene	13	U	13	2.5	NA	4/28/10 17:08		198317	
cis-1,2-Dichloroethene	13	U	13	2.5	NA	4/28/10 17:08		198317	
trans-1,2-Dichloroethene	13	U	13	2.5	NA	4/28/10 17:08		198317	
1,2-Dichloropropane	13	U	13	2.5	NA	4/28/10 17:08		198317	
cis-1,3-Dichloropropene	13	U	13	2.5	NA	4/28/10 17:08		198317	
trans-1,3-Dichloropropene	13	U	13	2.5	NA	4/28/10 17:08		198317	
Ethylbenzene	13	U	13	2.5	NA	4/28/10 17:08		198317	
2-Hexanone	25	U	25	2.5	NA	4/28/10 17:08		198317	
Methylene Chloride	13	U	13	2.5	NA	4/28/10 17:08		198317	
4-Methyl-2-pentanone (MIBK)	25	U	25	2.5	NA	4/28/10 17:08		198317	
Styrene	13	U	13	2.5	NA	4/28/10 17:08		198317	
1,1,2,2-Tetrachloroethane	13	U	13	2.5	NA	4/28/10 17:08		198317	
Tetrachloroethene	13	U	13	2.5	NA	4/28/10 17:08		198317	
Toluene	13	U	13	2.5	NA	4/28/10 17:08		198317	
1,1,1-Trichloroethane	13	U	13	2.5	NA	4/28/10 17:08		198317	
1,1,2-Trichloroethane	13	U	13	2.5	NA	4/28/10 17:08		198317	
Trichloroethene	13	U	13	2.5	NA	4/28/10 17:08		198317	
Vinyl Chloride	65		13	2.5	NA	4/28/10 17:08		198317	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water
Sample Name: MW-501
Lab Code: R1002162-009

Service Request: R1002162
Date Collected: 4/21/10 1335
Date Received: 4/22/10
Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Analysis		
							Lot	Lot	Note
o-Xylene	13	U	13	2.5	NA	4/28/10 17:08		198317	
m,p-Xylenes	13	U	13	2.5	NA	4/28/10 17:08		198317	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q	Note
4-Bromofluorobenzene	104	85-122	4/28/10 17:08		
Toluene-d8	98	87-121	4/28/10 17:08		
Dibromofluoromethane	100	89-119	4/28/10 17:08		

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water
Sample Name: MW-501
Lab Code: R1002162-009

Service Request: R1002162
Date Collected: 4/21/10 1335
Date Received: 4/22/10
Units: µg/L
Basis: NA

Dissolved Gases by GC/FID

Analytical Method: RSK 175

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Ethane	250	U	250	250	NA	4/27/10 09:33		198160	
Ethylene	250	U	250	250	NA	4/27/10 09:33		198160	
Methane	15000		500	250	NA	4/27/10 09:33		198160	
Propane	250	U	250	250	NA	4/27/10 09:33		198160	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water
Sample Name: MW-502
Lab Code: R1002162-010

Service Request: R1002162
Date Collected: 4/21/10 1318
Date Received: 4/22/10

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed
Alkalinity as CaCO ₃ , Total	SM 2320 B	800		mg/L	2.0	1	NA	4/29/10 08:34
Chloride	9056	562		mg/L	20	100	NA	4/27/10 13:30
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	0.20		mg/L	0.10	1	NA	4/22/10 18:10
Nitrate as Nitrogen	9056	0.50	U	mg/L	0.50	10	NA	4/23/10 15:39
Nitrite as Nitrogen	9056	0.50	U	mg/L	0.50	10	NA	4/23/10 15:39
Sulfate	9056	2.0	U	mg/L	2.0	10	NA	4/23/10 15:39
Sulfide, Acid-Soluble	9034	5.8		mg/L	4.0	1	4/26/10	4/26/10 07:30

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water
Sample Name: MW-502
Lab Code: R1002162-010

Service Request: R1002162
Date Collected: 4/21/10 1318
Date Received: 4/22/10

Basis: NA

Iron, Total, by Inductively Coupled Plasma-Atomic Emission Spectrometry

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed
Iron, Total	6010B	1860000	µg/L	1000	10	4/27/10	5/4/10 10:26

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water
Sample Name: MW-502
Lab Code: R1002162-010

Service Request: R1002162
Date Collected: 4/21/10 1318
Date Received: 4/22/10
Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Acetone	1000	U	1000	50	NA	4/28/10 17:36		198317	
Benzene	250	U	250	50	NA	4/28/10 17:36		198317	
Bromodichloromethane	250	U	250	50	NA	4/28/10 17:36		198317	
Bromoform	250	U	250	50	NA	4/28/10 17:36		198317	
Bromomethane	250	U	250	50	NA	4/28/10 17:36		198317	
2-Butanone (MEK)	500	U	500	50	NA	4/28/10 17:36		198317	
Carbon Disulfide	500	U	500	50	NA	4/28/10 17:36		198317	
Carbon Tetrachloride	250	U	250	50	NA	4/28/10 17:36		198317	
Chlorobenzene	250	U	250	50	NA	4/28/10 17:36		198317	
Chloroethane	10000	E	250	50	NA	4/28/10 17:36		198317	
Chloroform	250	U	250	50	NA	4/28/10 17:36		198317	
Chloromethane	250	U	250	50	NA	4/28/10 17:36		198317	
Dibromochloromethane	250	U	250	50	NA	4/28/10 17:36		198317	
1,1-Dichloroethane	250	U	250	50	NA	4/28/10 17:36		198317	
1,2-Dichloroethane	250	U	250	50	NA	4/28/10 17:36		198317	
1,1-Dichloroethene	250	U	250	50	NA	4/28/10 17:36		198317	
cis-1,2-Dichloroethene	250	U	250	50	NA	4/28/10 17:36		198317	
trans-1,2-Dichloroethene	250	U	250	50	NA	4/28/10 17:36		198317	
1,2-Dichloropropane	250	U	250	50	NA	4/28/10 17:36		198317	
cis-1,3-Dichloropropene	250	U	250	50	NA	4/28/10 17:36		198317	
trans-1,3-Dichloropropene	250	U	250	50	NA	4/28/10 17:36		198317	
Ethylbenzene	250	U	250	50	NA	4/28/10 17:36		198317	
2-Hexanone	500	U	500	50	NA	4/28/10 17:36		198317	
Methylene Chloride	250	U	250	50	NA	4/28/10 17:36		198317	
4-Methyl-2-pentanone (MIBK)	500	U	500	50	NA	4/28/10 17:36		198317	
Styrene	250	U	250	50	NA	4/28/10 17:36		198317	
1,1,2,2-Tetrachloroethane	250	U	250	50	NA	4/28/10 17:36		198317	
Tetrachloroethene	250	U	250	50	NA	4/28/10 17:36		198317	
Toluene	250	U	250	50	NA	4/28/10 17:36		198317	
1,1,1-Trichloroethane	250	U	250	50	NA	4/28/10 17:36		198317	
1,1,2-Trichloroethane	250	U	250	50	NA	4/28/10 17:36		198317	
Trichloroethene	250	U	250	50	NA	4/28/10 17:36		198317	
Vinyl Chloride	250	U	250	50	NA	4/28/10 17:36		198317	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water
Sample Name: MW-502
Lab Code: R1002162-010

Service Request: R1002162
Date Collected: 4/21/10 1318
Date Received: 4/22/10
Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Analysis		
							Lot	Lot	Note
o-Xylene	250	U	250	50	NA	4/28/10 17:36		198317	
m,p-Xylenes	250	U	250	50	NA	4/28/10 17:36		198317	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q	Note
4-Bromofluorobenzene	106	85-122	4/28/10 17:36		
Toluene-d8	99	87-121	4/28/10 17:36		
Dibromofluoromethane	100	89-119	4/28/10 17:36		

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water
Sample Name: MW-502
Lab Code: R1002162-010
Run Type: Dilution

Service Request: R1002162
Date Collected: 4/21/10 1318
Date Received: 4/22/10

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Acetone	2000	U	2000	100	NA	4/29/10 12:15		198480	
Benzene	500	U	500	100	NA	4/29/10 12:15		198480	
Bromodichloromethane	500	U	500	100	NA	4/29/10 12:15		198480	
Bromoform	500	U	500	100	NA	4/29/10 12:15		198480	
Bromomethane	500	U	500	100	NA	4/29/10 12:15		198480	
2-Butanone (MEK)	1000	U	1000	100	NA	4/29/10 12:15		198480	
Carbon Disulfide	1000	U	1000	100	NA	4/29/10 12:15		198480	
Carbon Tetrachloride	500	U	500	100	NA	4/29/10 12:15		198480	
Chlorobenzene	500	U	500	100	NA	4/29/10 12:15		198480	
Chloroethane	11000	D	500	100	NA	4/29/10 12:15		198480	
Chloroform	500	U	500	100	NA	4/29/10 12:15		198480	
Chloromethane	500	U	500	100	NA	4/29/10 12:15		198480	
Dibromochloromethane	500	U	500	100	NA	4/29/10 12:15		198480	
1,1-Dichloroethane	500	U	500	100	NA	4/29/10 12:15		198480	
1,2-Dichloroethane	500	U	500	100	NA	4/29/10 12:15		198480	
1,1-Dichloroethene	500	U	500	100	NA	4/29/10 12:15		198480	
cis-1,2-Dichloroethene	500	U	500	100	NA	4/29/10 12:15		198480	
trans-1,2-Dichloroethene	500	U	500	100	NA	4/29/10 12:15		198480	
1,2-Dichloropropane	500	U	500	100	NA	4/29/10 12:15		198480	
cis-1,3-Dichloropropene	500	U	500	100	NA	4/29/10 12:15		198480	
trans-1,3-Dichloropropene	500	U	500	100	NA	4/29/10 12:15		198480	
Ethylbenzene	500	U	500	100	NA	4/29/10 12:15		198480	
2-Hexanone	1000	U	1000	100	NA	4/29/10 12:15		198480	
Methylene Chloride	500	U	500	100	NA	4/29/10 12:15		198480	
4-Methyl-2-pentanone (MIBK)	1000	U	1000	100	NA	4/29/10 12:15		198480	
Styrene	500	U	500	100	NA	4/29/10 12:15		198480	
1,1,2,2-Tetrachloroethane	500	U	500	100	NA	4/29/10 12:15		198480	
Tetrachloroethene	500	U	500	100	NA	4/29/10 12:15		198480	
Toluene	500	U	500	100	NA	4/29/10 12:15		198480	
1,1,1-Trichloroethane	500	U	500	100	NA	4/29/10 12:15		198480	
1,1,2-Trichloroethane	500	U	500	100	NA	4/29/10 12:15		198480	
Trichloroethene	500	U	500	100	NA	4/29/10 12:15		198480	
Vinyl Chloride	500	U	500	100	NA	4/29/10 12:15		198480	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water
Sample Name: MW-502
Lab Code: R1002162-010
Run Type: Dilution

Service Request: R1002162
Date Collected: 4/21/10 1318
Date Received: 4/22/10
Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
o-Xylene	500	U	500	100	NA	4/29/10 12:15		198480	
m,p-Xylenes	500	U	500	100	NA	4/29/10 12:15		198480	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q	Note
4-Bromofluorobenzene	106	85-122	4/29/10 12:15		
Toluene-d8	99	87-121	4/29/10 12:15		
Dibromofluoromethane	100	89-119	4/29/10 12:15		

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water
Sample Name: MW-502
Lab Code: R1002162-010

Service Request: R1002162
Date Collected: 4/21/10 1318
Date Received: 4/22/10
Units: µg/L
Basis: NA

Dissolved Gases by GC/FID

Analytical Method: RSK 175

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Analysis	
							Lot	Lot Note
Ethane	200	U	200	200	NA	4/27/10 08:18	198160	
Ethylene	200	U	200	200	NA	4/27/10 08:18	198160	
Methane	15000		400	200	NA	4/27/10 08:18	198160	
Propane	200	U	200	200	NA	4/27/10 08:18	198160	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: R1002162-MB1

Service Request: R1002162
Date Collected: NA
Date Received: NA

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed
Alkalinity as CaCO ₃ , Total	SM 2320 B	2.0	U	mg/L	2.0	1	NA	4/29/10 08:34
Chloride	9056	0.20	U	mg/L	0.20	1	NA	4/27/10 09:30
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	0.10	U	mg/L	0.10	1	NA	4/22/10 18:10
Nitrate as Nitrogen	9056	0.050	U	mg/L	0.050	1	NA	4/23/10 12:53
Nitrite as Nitrogen	9056	0.050	U	mg/L	0.050	1	NA	4/23/10 12:53
Sulfate	9056	0.20	U	mg/L	0.20	1	NA	4/23/10 12:53
Sulfide, Acid-Soluble	9034	1.0	U	mg/L	1.0	1	4/26/10	4/26/10 07:30

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: R1002162-MB2

Service Request: R1002162
Date Collected: NA
Date Received: NA
Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed
Alkalinity as CaCO ₃ , Total	SM 2320 B	2.0	U	mg/L	2.0	1	NA	4/29/10 08:34
Nitrite as Nitrogen	9056	0.050	U	mg/L	0.050	1	NA	4/27/10 09:30

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: R1002162-MB3

Service Request: R1002162
Date Collected: NA
Date Received: NA
Basis: NA

Alkalinity Titration 20th Ed.

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed
Alkalinity as CaCO ₃ , Total	SM 2320 B	2.0	U	mg/L	2.0	1	NA	4/29/10 15:36

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: R1002162-MB1

Service Request: R1002162
Date Collected: NA
Date Received: NA
Basis: NA

Iron, Total, by Inductively Coupled Plasma-Atomic Emission Spectrometry

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed
Iron, Total	6010B	100	U	µg/L	100	1	4/27/10	4/28/10 21:25

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: R1002162-MB2

Service Request: R1002162
Date Collected: NA
Date Received: NA
Basis: NA

Iron, Total, by Inductively Coupled Plasma-Atomic Emission Spectrometry

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed
Iron, Total	6010B	100	U	µg/L	100	1	4/27/10	4/28/10 21:37

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ1003109-01

Service Request: R1002162
Date Collected: NA
Date Received: NA
Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Acetone	20	U	20	1	NA	4/28/10 11:50		198317	
Benzene	5.0	U	5.0	1	NA	4/28/10 11:50		198317	
Bromodichloromethane	5.0	U	5.0	1	NA	4/28/10 11:50		198317	
Bromoform	5.0	U	5.0	1	NA	4/28/10 11:50		198317	
Bromomethane	5.0	U	5.0	1	NA	4/28/10 11:50		198317	
2-Butanone (MEK)	10	U	10	1	NA	4/28/10 11:50		198317	
Carbon Disulfide	10	U	10	1	NA	4/28/10 11:50		198317	
Carbon Tetrachloride	5.0	U	5.0	1	NA	4/28/10 11:50		198317	
Chlorobenzene	5.0	U	5.0	1	NA	4/28/10 11:50		198317	
Chloroethane	5.0	U	5.0	1	NA	4/28/10 11:50		198317	
Chloroform	5.0	U	5.0	1	NA	4/28/10 11:50		198317	
Chloromethane	5.0	U	5.0	1	NA	4/28/10 11:50		198317	
Dibromochloromethane	5.0	U	5.0	1	NA	4/28/10 11:50		198317	
1,1-Dichloroethane	5.0	U	5.0	1	NA	4/28/10 11:50		198317	
1,2-Dichloroethane	5.0	U	5.0	1	NA	4/28/10 11:50		198317	
1,1-Dichloroethene	5.0	U	5.0	1	NA	4/28/10 11:50		198317	
cis-1,2-Dichloroethene	5.0	U	5.0	1	NA	4/28/10 11:50		198317	
trans-1,2-Dichloroethene	5.0	U	5.0	1	NA	4/28/10 11:50		198317	
1,2-Dichloropropane	5.0	U	5.0	1	NA	4/28/10 11:50		198317	
cis-1,3-Dichloropropene	5.0	U	5.0	1	NA	4/28/10 11:50		198317	
trans-1,3-Dichloropropene	5.0	U	5.0	1	NA	4/28/10 11:50		198317	
Ethylbenzene	5.0	U	5.0	1	NA	4/28/10 11:50		198317	
2-Hexanone	10	U	10	1	NA	4/28/10 11:50		198317	
Methylene Chloride	5.0	U	5.0	1	NA	4/28/10 11:50		198317	
4-Methyl-2-pentanone (MIBK)	10	U	10	1	NA	4/28/10 11:50		198317	
Styrene	5.0	U	5.0	1	NA	4/28/10 11:50		198317	
1,1,2,2-Tetrachloroethane	5.0	U	5.0	1	NA	4/28/10 11:50		198317	
Tetrachloroethene	5.0	U	5.0	1	NA	4/28/10 11:50		198317	
Toluene	5.0	U	5.0	1	NA	4/28/10 11:50		198317	
1,1,1-Trichloroethane	5.0	U	5.0	1	NA	4/28/10 11:50		198317	
1,1,2-Trichloroethane	5.0	U	5.0	1	NA	4/28/10 11:50		198317	
Trichloroethene	5.0	U	5.0	1	NA	4/28/10 11:50		198317	
Vinyl Chloride	5.0	U	5.0	1	NA	4/28/10 11:50		198317	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ1003109-01

Service Request: R1002162
Date Collected: NA
Date Received: NA
Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Analysis		
							Lot	Lot	Note
o-Xylene	5.0	U	5.0	1	NA	4/28/10 11:50		198317	
m,p-Xylenes	5.0	U	5.0	1	NA	4/28/10 11:50		198317	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q	Note
4-Bromofluorobenzene	101	85-122	4/28/10 11:50		
Toluene-d8	97	87-121	4/28/10 11:50		
Dibromofluoromethane	98	89-119	4/28/10 11:50		

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ1003163-01

Service Request: R1002162
Date Collected: NA
Date Received: NA
Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Acetone	20	U	20	1	NA	4/29/10 11:21		198480	
Benzene	5.0	U	5.0	1	NA	4/29/10 11:21		198480	
Bromodichloromethane	5.0	U	5.0	1	NA	4/29/10 11:21		198480	
Bromoform	5.0	U	5.0	1	NA	4/29/10 11:21		198480	
Bromomethane	5.0	U	5.0	1	NA	4/29/10 11:21		198480	
2-Butanone (MEK)	10	U	10	1	NA	4/29/10 11:21		198480	
Carbon Disulfide	10	U	10	1	NA	4/29/10 11:21		198480	
Carbon Tetrachloride	5.0	U	5.0	1	NA	4/29/10 11:21		198480	
Chlorobenzene	5.0	U	5.0	1	NA	4/29/10 11:21		198480	
Chloroethane	5.0	U	5.0	1	NA	4/29/10 11:21		198480	
Chloroform	5.0	U	5.0	1	NA	4/29/10 11:21		198480	
Chloromethane	5.0	U	5.0	1	NA	4/29/10 11:21		198480	
Dibromochloromethane	5.0	U	5.0	1	NA	4/29/10 11:21		198480	
1,1-Dichloroethane	5.0	U	5.0	1	NA	4/29/10 11:21		198480	
1,2-Dichloroethane	5.0	U	5.0	1	NA	4/29/10 11:21		198480	
1,1-Dichloroethene	5.0	U	5.0	1	NA	4/29/10 11:21		198480	
cis-1,2-Dichloroethene	5.0	U	5.0	1	NA	4/29/10 11:21		198480	
trans-1,2-Dichloroethene	5.0	U	5.0	1	NA	4/29/10 11:21		198480	
1,2-Dichloropropane	5.0	U	5.0	1	NA	4/29/10 11:21		198480	
cis-1,3-Dichloropropene	5.0	U	5.0	1	NA	4/29/10 11:21		198480	
trans-1,3-Dichloropropene	5.0	U	5.0	1	NA	4/29/10 11:21		198480	
Ethylbenzene	5.0	U	5.0	1	NA	4/29/10 11:21		198480	
2-Hexanone	10	U	10	1	NA	4/29/10 11:21		198480	
Methylene Chloride	5.0	U	5.0	1	NA	4/29/10 11:21		198480	
4-Methyl-2-pentanone (MIBK)	10	U	10	1	NA	4/29/10 11:21		198480	
Styrene	5.0	U	5.0	1	NA	4/29/10 11:21		198480	
1,1,2,2-Tetrachloroethane	5.0	U	5.0	1	NA	4/29/10 11:21		198480	
Tetrachloroethene	5.0	U	5.0	1	NA	4/29/10 11:21		198480	
Toluene	5.0	U	5.0	1	NA	4/29/10 11:21		198480	
1,1,1-Trichloroethane	5.0	U	5.0	1	NA	4/29/10 11:21		198480	
1,1,2-Trichloroethane	5.0	U	5.0	1	NA	4/29/10 11:21		198480	
Trichloroethene	5.0	U	5.0	1	NA	4/29/10 11:21		198480	
Vinyl Chloride	5.0	U	5.0	1	NA	4/29/10 11:21		198480	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ1003163-01

Service Request: R1002162
Date Collected: NA
Date Received: NA
Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
o-Xylene	5.0	U	5.0	1	NA	4/29/10 11:21		198480	
m,p-Xylenes	5.0	U	5.0	1	NA	4/29/10 11:21		198480	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q	Note
4-Bromofluorobenzene	103	85-122	4/29/10 11:21		
Toluene-d8	95	87-121	4/29/10 11:21		
Dibromofluoromethane	98	89-119	4/29/10 11:21		

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ1003080-01

Service Request: R1002162
Date Collected: NA
Date Received: NA
Units: µg/L
Basis: NA

Dissolved Gases by GC/FID

Analytical Method: RSK 175

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Analysis		
							Lot	Lot	Note
Ethane	1.0	U	1.0	1	NA	4/27/10 07:47		198160	
Ethylene	1.0	U	1.0	1	NA	4/27/10 07:47		198160	
Methane	2.0	U	2.0	1	NA	4/27/10 07:47		198160	
Propane	1.0	U	1.0	1	NA	4/27/10 07:47		198160	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ1003095-01

Service Request: R1002162
Date Collected: NA
Date Received: NA
Units: mg/L
Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC)

Analytical Method: Organic Acids

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Analysis		
							Lot	Lot	Note
Pyruvic Acid	0.50	U	0.50	1	NA	4/28/10 10:19		198263	
Acetic Acid	1.0	U	1.0	1	NA	4/28/10 10:19		198263	
Butyric Acid	2.0	U	2.0	1	NA	4/28/10 10:19		198263	
Lactic Acid	1.0	U	1.0	1	NA	4/28/10 10:19		198263	
Propionic Acid	1.0	U	1.0	1	NA	4/28/10 10:19		198263	

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water

Service Request: R1002162
Date Analyzed: 4/22/10 -
4/29/10

Lab Control Sample Summary
General Chemistry Parameters

Units: mg/L**Basis:** NA

Analyte Name	Method	Lab Control Sample R1002162-LCS1			% Rec Limits
		Result	Expected	% Rec	
Chloride	9056	1.91	2.00	96	90 - 110
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	0.391	0.40	98	77 - 129
Sulfate	9056	1.95	2.00	97	90 - 110
Alkalinity as CaCO ₃ , Total	SM 2320 B	18.9	20.0	94	72 - 115
Nitrate as Nitrogen	9056	0.937	1.00	94	90 - 110
Nitrite as Nitrogen	9056	0.945	0.999	95	90 - 110
Sulfide, Acid-Soluble	9034	6.01	9.9	60	51 - 105

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water

Service Request: R1002162
Date Analyzed: 4/27/10 -
4/29/10

**Lab Control Sample Summary
General Chemistry Parameters**

Units: mg/L

Basis: NA

Analyte Name	Method	Lab Control Sample R1002162-LCS2			% Rec Limits
		Result	Expected	% Rec	
Alkalinity as CaCO ₃ , Total	SM 2320 B	19.2	20.0	96	72 - 115
Nitrite as Nitrogen	9056	0.985	0.999	99	90 - 110

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water

Service Request: R1002162
Date Analyzed: 4/29/10

Lab Control Sample Summary
Alkalinity Titration 20th Ed.

Units: mg/L

Basis: NA

Analyte Name	Method	Lab Control Sample R1002162-LCS3			% Rec Limits
		Result	Expected	% Rec	
Alkalinity as CaCO ₃ , Total	SM 2320 B	996	1000	100	72 - 115

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water

Service Request: R1002162
Date Analyzed: 4/28/10

Lab Control Sample Summary
Iron, Total, by Inductively Coupled Plasma-Atomic Emission Spectrometry

Units: µg/L
Basis: NA

Analyte Name	Method	Lab Control Sample R1002162-LCS1			% Rec Limits
		Result	Expected	% Rec	
Iron, Total	6010B	1020	1000	102	80 - 120

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water

Service Request: R1002162
Date Analyzed: 4/28/10

Lab Control Sample Summary
Iron, Total, by Inductively Coupled Plasma-Atomic Emission Spectrometry

Units: µg/L

Basis: NA

Analyte Name	Method	Lab Control Sample R1002162-LCS2			% Rec Limits
		Result	Expected	% Rec	
Iron, Total	6010B	954	1000	95	80 - 120

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/70665-001
 Sample Matrix: Water

Service Request: R1002162
 Date Analyzed: 4/28/10

Lab Control Sample Summary
 Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Units: µg/L

Basis: NA

Analysis Lot: 198317

Analyte Name	Lab Control Sample RQ1003109-02			% Rec Limits
	Result	Expected	% Rec	
Acetone	20.8	20.0	104	50 - 150
Benzene	19.2	20.0	96	70 - 130
Bromodichloromethane	18.6	20.0	93	70 - 130
Bromoform	17.8	20.0	89	70 - 130
Bromomethane	20.1	20.0	101	50 - 150
2-Butanone (MEK)	19.0	20.0	95	50 - 150
Carbon Disulfide	20.7	20.0	104	70 - 130
Carbon Tetrachloride	17.9	20.0	90	70 - 130
Chlorobenzene	18.6	20.0	93	70 - 130
Chloroethane	18.0	20.0	90	70 - 130
Chloroform	19.0	20.0	95	70 - 130
Chloromethane	20.0	20.0	100	70 - 130
Dibromochloromethane	19.0	20.0	95	70 - 130
1,1-Dichloroethane	19.6	20.0	98	70 - 130
1,2-Dichloroethane	17.4	20.0	87	70 - 130
1,1-Dichloroethene	20.6	20.0	103	70 - 130
cis-1,2-Dichloroethene	19.8	20.0	99	70 - 130
trans-1,2-Dichloroethene	19.5	20.0	98	70 - 130
1,2-Dichloropropane	19.2	20.0	96	70 - 130
cis-1,3-Dichloropropene	19.1	20.0	96	70 - 130
trans-1,3-Dichloropropene	18.1	20.0	91	70 - 130
Ethylbenzene	19.2	20.0	96	70 - 130
2-Hexanone	17.4	20.0	87	70 - 130
Methylene Chloride	19.5	20.0	97	70 - 130
4-Methyl-2-pentanone (MIBK)	17.3	20.0	86	70 - 130
Styrene	18.8	20.0	94	70 - 130
1,1,2,2-Tetrachloroethane	17.8	20.0	89	70 - 130
Tetrachloroethene	18.0	20.0	90	70 - 130
Toluene	18.8	20.0	94	70 - 130
1,1,1-Trichloroethane	18.9	20.0	95	70 - 130
1,1,2-Trichloroethane	17.7	20.0	88	70 - 130
Trichloroethene	19.3	20.0	97	70 - 130
Vinyl Chloride	20.1	20.0	100	70 - 130
o-Xylene	19.3	20.0	96	70 - 130
m,p-Xylenes	37.7	40.0	94	70 - 130

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/70665-001
 Sample Matrix: Water

Service Request: R1002162
 Date Analyzed: 4/29/10

Lab Control Sample Summary
 Volatile Organic Compounds by GC/MS

Analytical Method: 8260B

Units: µg/L

Basis: NA

Analysis Lot: 198480

Analyte Name	Lab Control Sample RQ1003163-02			% Rec Limits
	Result	Expected	% Rec	
Acetone	21.0	20.0	105	50 - 150
Benzene	19.6	20.0	98	70 - 130
Bromodichloromethane	18.8	20.0	94	70 - 130
Bromoform	16.9	20.0	84	70 - 130
Bromomethane	20.1	20.0	100	50 - 150
2-Butanone (MEK)	19.3	20.0	97	50 - 150
Carbon Disulfide	20.9	20.0	105	70 - 130
Carbon Tetrachloride	18.1	20.0	91	70 - 130
Chlorobenzene	18.5	20.0	92	70 - 130
Chloroethane	19.0	20.0	95	70 - 130
Chloroform	19.3	20.0	96	70 - 130
Chloromethane	20.2	20.0	101	70 - 130
Dibromochloromethane	18.4	20.0	92	70 - 130
1,1-Dichloroethane	19.8	20.0	99	70 - 130
1,2-Dichloroethane	17.2	20.0	86	70 - 130
1,1-Dichloroethene	20.6	20.0	103	70 - 130
cis-1,2-Dichloroethene	20.1	20.0	100	70 - 130
trans-1,2-Dichloroethene	19.4	20.0	97	70 - 130
1,2-Dichloropropane	19.5	20.0	98	70 - 130
cis-1,3-Dichloropropene	19.4	20.0	97	70 - 130
trans-1,3-Dichloropropene	18.0	20.0	90	70 - 130
Ethylbenzene	19.3	20.0	96	70 - 130
2-Hexanone	17.4	20.0	87	70 - 130
Methylene Chloride	19.7	20.0	98	70 - 130
4-Methyl-2-pentanone (MIBK)	17.8	20.0	89	70 - 130
Styrene	18.8	20.0	94	70 - 130
1,1,2,2-Tetrachloroethane	17.5	20.0	88	70 - 130
Tetrachloroethene	18.3	20.0	91	70 - 130
Toluene	18.8	20.0	94	70 - 130
1,1,1-Trichloroethane	18.9	20.0	95	70 - 130
1,1,2-Trichloroethane	17.3	20.0	87	70 - 130
Trichloroethene	19.7	20.0	98	70 - 130
Vinyl Chloride	20.7	20.0	103	70 - 130
o-Xylene	19.1	20.0	96	70 - 130
m,p-Xylenes	38.1	40.0	95	70 - 130

Comments:

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water

Service Request: R1002162
Date Analyzed: 4/27/10

Lab Control Sample Summary
Dissolved Gases by GC/FID

Analytical Method: RSK 175

Units: µg/L

Basis: NA

Analysis Lot: 198160

Analyte Name	Lab Control Sample			% Rec Limits
	Result	Expected	% Rec	
Ethane	28.8	26.1	110	57 - 150
Ethylene	28.3	24.3	117	52 - 149
Methane	28.9	26.3	110	44 - 157
Propane	30.1	25.5	118	43 - 149

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water

Service Request: R1002162
Date Analyzed: 4/28/10

Lab Control Sample Summary
Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC)

Analytical Method: Organic Acids

Units: mg/L

Basis: NA

Analysis Lot: 198263

Analyte Name	Lab Control Sample RQ1003095-02			Duplicate Lab Control Sample RQ1003095-03			% Rec Limits	RPD	RPD Limit
	Result	Expected	% Rec	Result	Expected	% Rec			
Pyruvic Acid	1.04	1.01	103	1.08	1.01	107	70 - 130	4	30
Acetic Acid	8.45	10.0	84	8.56	10.0	85	70 - 135	1	30
Butyric Acid	10.5	10.0	105	8.93	10.0	89	82 - 118	17	30
Lactic Acid	7.48	10.1	74	7.63	10.1	76	70 - 117	2	30
Propionic Acid	10.3	10.1	103	10.2	10.1	101	80 - 125	1	30

Comments: _____

Project Name CooperVision		Project Number 70605-0110		ANALYSIS REQUESTED (Include Method Number and Container Preservative)											
Project Manager Mark Ramsdell		Report CC Claire Mondello		PRESERVATIVE 1		8		8		8		9		1	
Company/Address Haley & Aldrich		200 Town Centre Dr. Suite 2		ROCHESTER, NY 14623		GC/MS VOAS □ CLP		GC/MS SVOAS □ CLP		GC/MS VOAS □ CLP		GC/MS SVOAS □ CLP		GC/MS VOAS □ CLP	
Phone # (585) 321-4219		FAX # (585) 486-8219		Sample's Printed Name Claire L. Mondello		METALS, TOTAL (List in comments below)		METALS, DISSOLVED (List in comments below)		ALKALINITY (List in comments below)		NO ₃ , NO ₂ , Fe ²⁺ , Cl ⁻ , SO ₄ ²⁻		Total Fe	
Signature Claire Mondello		Signature Claire L. Mondello		FOR OFFICE USE ONLY		LAB ID		SAMPLING DATE		TIME		MATRIX		REMARKS/ALTERNATE DESCRIPTION	
CLIENT SAMPLE ID		-001		4/2/10		- GW		X						Dissolved Gases	
Trip Blank		-002		11:10		3		X						Metabolic Acids *	
MW-202		-003		11:53		3		X						Sulfide	
MW-203		-004		10:20		3		X						Total Fe	
MW-204		-005		16:35		11		X						Alkalinity	
MW-205		-006		10:25		10		X						NO ₃ , NO ₂ , Fe ²⁺ , Cl ⁻ , SO ₄ ²⁻	
MW-3		-007		9:36		3		X						Total Fe	
DW-306		-008		14:40		10		X						Sulfide	
DMS-3025		-009		13:35		10		X						Metabolic Acids *	
MW-501		-010		13:18		10		X						Total Fe	
MW-502						10		X						Alkalinity	
SPECIAL INSTRUCTIONS/COMMENTS Metals * Metabolic Acids: Lactic, acetic, propionic, pyruvic, & butyric ** Dissolved Gases: methane, ethane, ethene															
See QAPP ☐ SAMPLE RECEIPT: CONDITION/COOLER TEMP: 14.54°C RECEIVED BY Claire Mondello SIGNATURE Claire Mondello PRINTED NAME Claire Mondello FIRM Haley & Aldrich DATE/TIME 4/22/10 1645 RELINQUISHED BY David Ward SIGNATURE David Ward PRINTED NAME David Ward FIRM Haley & Aldrich DATE/TIME 4/22/10 1645 CUSTODY SEALS: Y N															
TURNAROUND REQUIREMENTS RUSH (SURCHARGES APPLY) ☐ 24 hr ☐ 48 hr ☐ 5 day STANDARD ☒ REQUESTED FAX DATE _____ REQUESTED REPORT DATE _____															
REPORT REQUIREMENTS I. Results Only ☒ II. Results + QC Summaries (LCS, DUP, MS/MSD as required) ☐ III. Results + QC and Calibration Summaries ☐ IV. Data Validation Report with Raw Data ☐ V. Specialized Forms / Custom Report ☐ Edata ☒ Yes ☐ No															
INVOICE INFORMATION PO# 70605-0110 BILL TO: ap@haleyaldrich.com R1002162 Haley & Aldrich, Inc. Cooperation															
RELINQUISHED BY Signature _____ Printed Name _____ Firm _____ Date/Time _____															
RECEIVED BY Signature _____ Printed Name _____ Firm _____ Date/Time _____															

Cooler Receipt And Preservation

R1002162

Haley & Aldrich, Inc.
CooperationProject/Client H+A - Copper Vision Submission NumberCooler received on 4/22/10 by: DM COURIER: CAS UPS FEDEX VELOCITY CLIENT

1. Were custody seals on outside of cooler? YES NO
2. Were custody papers properly filled out (ink, signed, etc.)? YES NO
3. Did all bottles arrive in good condition (unbroken)? YES NO
4. Did any VOA vials have significant* air bubbles? YES NO
5. Were ~~ice~~ or Ice packs present? YES NO N/A
6. Where did the bottles originate? CAS/ROC NO
7. Temperature of cooler(s) upon receipt: 1.4° 6.4 CAS/ROC, CLIENT

Is the temperature within 0° - 6° C?: Yes Yes Yes Yes Yes
 If No, Explain Below No No No No No

Date/Time Temperatures Taken: 4/22/10 1700Thermometer ID: IR GUN#3 / IR GUN#4 Reading From: Temp Blank / Sample Bottle

If out of Temperature, note packing/ice condition, Client Approval to Run Samples:

PC Secondary Review: KB 4/23/10Cooler Breakdown: Date: 4/23/10 by: DM

1. Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
2. Did all bottle labels and tags agree with custody papers? YES NO
3. Were correct containers used for the tests indicated? YES NO
4. Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated N/A

Explain any discrepancies:

pH	Reagent	YES	NO	Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH	
≥12	NaOH									Yes = All samples OK
≤2	HNO ₃		✓	BDB26101D	3/11	005, 010	1 mL	BDB26101D	<2, 6	No = Samples were preserved at lab as listed
≤2	H ₂ SO ₄									
Residual Chlorine (-)	For TCN and Phenol			If present, contact PM to add ascorbic acid						
	Na ₂ S ₂ O ₃	-	-							
	Zn Aceta	-	-							
	HCl	*	*	4/109050	4/11					

*Not to be tested before analysis - pH tested and recorded by VOAs or GenChem on a separate worksheet

PM OK to Adjust:

Bottle lot numbers: 020810-1F, 9-355-001, 101909-2PP

Other Comments:

Loc 010 did not preserve after adding acid (HNO₃). It was left at pH 6.

Loc 008 was labeled 00-3025, not 005-3025 which was on chain. Chain was followed.

PC Secondary Review: KB 5/6/10

*significant air bubbles are greater than 5-6 mm

November 03, 2010

Service Request No: R1005822

Mr. Mark Ramsdell
Haley & Aldrich, Inc.
200 Town Centre Drive
Suite 2
Rochester, NY 14623-4264

Laboratory Results for: Coopervision/70665-001

Dear Mr. Ramsdell:

Enclosed are the results of the sample(s) submitted to our laboratory on October 20, 2010. For your reference, these analyses have been assigned our service request number **R1005822**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 134. You may also contact me via email at KBunker@caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.



Karen Bunker
Project Manager

Page 1 of 80

COLUMBIA ANALYTICAL SERVICES, INC.

Client: Haley & Aldrich of New York
Project: Coopervision #70665-001 10/10
Sample Matrix: Water

Service Request No.: R1005822
Date Received: 10/20/10

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier II data deliverables. When appropriate to the method, method blank results have been reported with each analytical test. Surrogate recoveries have been reported for all applicable organic analyses. Additional quality control analyses reported herein include: Laboratory Control Sample (LCS).

Sample Receipt

Ten (10) water samples were collected on 10/18,19/10 by H&A and received for analysis at Columbia Analytical Services on 10/20/10. The samples were received in good condition and consistent with the accompanying chain of custody form. The cooler temperature upon receipt at the laboratory was 2°C within guidelines of 0-6°C.

General Chemistry Parameters & Metals

Five (5) water samples were analyzed for a client specific list of Anion and Cation parameters: Chloride, Sulfate, Total Alkalinity, Nitrate, Nitrite, Sulfide, Ferrous Iron, and Total Iron

All Method numbers are included on the data forms in the report.

All Initial and Continuing Calibration Criteria was met for all analyses.

Metals analyses are reported in ug/L in this report.

All holding times were met for these analyses except for the following samples: all Ferrous Iron aliquots were received outside of the 24 hr hold time and were run as soon as possible upon receipt in the lab, Nitrite aliquots were run outside the 48 hour holding time for locations OW-302S (CAS R1005822-002), MW-501 (-003), MW-205(-004) and MW-502(-005). All samples were run the same day as received. Exceedences are flagged as "*" on the data forms.

Ferrous Iron for location MW-205 (R0906034-011) required a dilution due to interference from color in the sample matrix.

Batch QC is included in the report. All Laboratory Control Sample (LCS) recoveries were within QC limits.

All Laboratory Method Blanks were free from contamination.

No problems were encountered during the analysis of these samples.

Approved by



Date

11/4/10

00002

Organic Compounds

Ten (10) water samples including one (1) Trip Blank were analyzed for the TCL of Volatile Organics by GC/MS Method 8260C from SW-846. Five (5) water samples were analyzed for Dissolved Gases by modified GC Method RSK-175. One (1) water was analyzed for Metabolic Acids by HPLC methodology.

Response Factors (RF) of 0.1 for Acetone and Carbon Tetrachloride were not met for the 8/31/10 Initial Calibration, however the MRL has been verified for accuracy during the initial calibration. The following Continuing Calibration Verification (CCV) standards were outside criteria possibly affecting the samples listed:

Carbon Tetrachloride RF out low and Carbon Disulfide %Difference (%D) was out slightly at 24%D (criteria is 20%) on the 10/22/10 CCV –

Associated samples:	Trip Blank	R1005822-001
	MW-501	R1005822-003
	MW-203	R1005822-007
	MW-3	R1005822-008
	MW-204	R1005822-009

Acetone & Carbon Tetrachloride RF's out low on the 10/25/10 CCV-

Associated samples:	MW-501DL	R1005822-003DL
	OW-302S	R1005822-002
	MW-205	R1005822-004
	MW-502, MS, MSD	R1005822-005, MS, MSD
	MW-306	R1005822-006
	MW-202	R1005822-010

Outlying RF's indicate a loss of sensitivity, however concentrations at the MRL have been verified for accuracy during the initial calibration. When CCV %D criteria are not met, it may indicate some bias in the quantitation for that target compound in the associated samples. Carbon Disulfide was not detected in all samples associated with the outlying CCV therefore data were acceptable.

Batch QC is included in the report. All Laboratory Control Samples (LCS) recoveries were within QC acceptance limits.

Hits above the calibration range of the standards are flagged as "E" estimated. The sample is then repeated at the appropriate dilution for the hit. Both sets of data are included in the report. The subsequent dilution hits are flagged as "D".

All surrogate recoveries were within acceptance limits.

All samples were analyzed within the appropriate holding times. All vials are checked for preservation after analysis. All samples were found to be preserved to a pH of <2 or the samples were analyzed within 7 days from collection for unpreserved aliquots except for the RSK-175 for locations MW-205 (R1005822-005). This aliquot was found to be unpreserved and was run on the 8th day from sample collection. All CAS vials are certified as preserved therefore matrix interference is suspected.

The Trip Blank and Laboratory Method Blanks were free from contamination.

No other problems were encountered during the analysis of these samples.

Approved by  Date 11/4/10

CASE NARRATIVE

This report contains analytical results for the following samples:

Service Request Number: R1005822

<u>Lab ID</u>	<u>Client ID</u>
R1005796-013	Batch QC
R1005822-001	Trip Blank
R1005822-002	OW-302S
R1005822-003	MW-501
R1005822-004	MW-205
R1005822-005	MW-502
R1005822-006	MW-306
R1005822-007	MW-203
R1005822-008	MW-3
R1005822-009	MW-204
R1005822-010	MW-202

REPORT QUALIFIERS

- U Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.
- J Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Aroclors).
- B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.
- E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.
- E Organics- Concentration has exceeded the calibration range for that specific analysis.
- D Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.
- * Indicates that a quality control parameter has exceeded laboratory limits.
- # Spike was diluted out.
- + Correlation coefficient for MSA is <0.995.
- N Inorganics- Matrix spike recovery was outside laboratory limits.
- N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
- S Concentration has been determined using Method of Standard Additions (MSA).
- W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
- P Concentration >40% (25% for CLP) difference between the two GC columns.
- C Confirmed by GC/MS
- Q DoD reports: indicates a pesticide/Aroclor is not confirmed ($\geq 100\%$ Difference between two GC columns).
- X See Case Narrative for discussion.



CAS/Rochester Lab ID # for State Certifications¹

NELAP Accredited
Delaware Accredited
Connecticut ID # PH0556
Florida ID # E87674
Illinois ID #200047
Maine ID #NY0032
Nebraska Accredited
Navy Facilities Engineering Service Center Approved

Nevada ID # NY-00032
New Jersey ID # NY004
New York ID # 10145
New Hampshire ID # 294100 A/B
Pennsylvania ID# 68-786
Rhode Island ID # 158
West Virginia ID # 292

¹ Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable, except as noted in the laboratory case narrative provided. For a specific list of accredited analytes, refer to the certifications section at www.caslab.com.

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/70665-001
 Sample Matrix: Water

Service Request: R1005822
 Date Collected: 10/18/10
 Date Received: 10/20/10
 Date Analyzed: 10/23/10 06:58

Sample Name: Trip Blank
 Lab Code: R1005822-001

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: U2983.D

Analysis Lot: 221950
 Instrument Name: R-MS-12
 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
67-64-1	Acetone	20	U	20	
71-43-2	Benzene	5.0	U	5.0	
75-27-4	Bromodichloromethane	5.0	U	5.0	
75-25-2	Bromoform	5.0	U	5.0	
74-83-9	Bromomethane	5.0	U	5.0	
78-93-3	2-Butanone (MEK)	10	U	10	
75-15-0	Carbon Disulfide	10	U	10	
56-23-5	Carbon Tetrachloride	5.0	U	5.0	
108-90-7	Chlorobenzene	5.0	U	5.0	
75-00-3	Chloroethane	5.0	U	5.0	
67-66-3	Chloroform	5.0	U	5.0	
74-87-3	Chloromethane	5.0	U	5.0	
124-48-1	Dibromochloromethane	5.0	U	5.0	
75-34-3	1,1-Dichloroethane	5.0	U	5.0	
107-06-2	1,2-Dichloroethane	5.0	U	5.0	
75-35-4	1,1-Dichloroethene	5.0	U	5.0	
156-59-2	cis-1,2-Dichloroethene	5.0	U	5.0	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	
78-87-5	1,2-Dichloropropane	5.0	U	5.0	
10061-01-5	cis-1,3-Dichloropropene	5.0	U	5.0	
10061-02-6	trans-1,3-Dichloropropene	5.0	U	5.0	
100-41-4	Ethylbenzene	5.0	U	5.0	
591-78-6	2-Hexanone	10	U	10	
75-09-2	Methylene Chloride	5.0	U	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	
100-42-5	Styrene	5.0	U	5.0	
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	5.0	
127-18-4	Tetrachloroethene	5.0	U	5.0	
108-88-3	Toluene	5.0	U	5.0	
71-55-6	1,1,1-Trichloroethane	5.0	U	5.0	
79-00-5	1,1,2-Trichloroethane	5.0	U	5.0	
79-01-6	Trichloroethene	5.0	U	5.0	
75-01-4	Vinyl Chloride	5.0	U	5.0	
95-47-6	o-Xylene	5.0	U	5.0	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water

Service Request: R1005822
Date Collected: 10/18/10
Date Received: 10/20/10
Date Analyzed: 10/23/10 06:58

Sample Name: Trip Blank
Lab Code: R1005822-001

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: U2983.D

Analysis Lot: 221950
Instrument Name: R-MS-12
Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
179601-23-1	m,p-Xylenes	5.0	U	5.0	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	102	85-122	10/23/10 06:58	
Toluene-d8	100	87-121	10/23/10 06:58	
Dibromofluoromethane	106	89-119	10/23/10 06:58	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water
Sample Name: OW-302S
Lab Code: R1005822-002

Service Request: R1005822
Date Collected: 10/18/10 1115
Date Received: 10/20/10

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Alkalinity as CaCO ₃ , Total	SM 2320 B	1150		mg/L	2.0	1	NA	10/28/10 13:41	
Chloride	9056A	2880		mg/L	200	1000	NA	10/21/10 17:53	
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	1.0	U	mg/L	1.0	10	NA	10/20/10 10:45	*
Nitrate as Nitrogen	9056A	1.0	U	mg/L	1.0	10	NA	10/20/10 10:21	
Nitrite as Nitrogen	353.2	0.020	U	mg/L	0.020	2	NA	10/20/10 17:58	*
Sulfate	9056A	2.2		mg/L	2.0	10	NA	10/20/10 10:21	
Sulfide, Acid-Soluble	9034	1.0	U	mg/L	1.0	1	10/22/10	10/22/10 08:30	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water
Sample Name: OW-302S
Lab Code: R1005822-002

Service Request: R1005822
Date Collected: 10/18/10 1115
Date Received: 10/20/10

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Iron, Total	6010C	79600		µg/L	100	1	10/21/10	10/26/10 16:28	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/70665-001
 Sample Matrix: Water

Service Request: R1005822
 Date Collected: 10/18/10 1115
 Date Received: 10/20/10
 Date Analyzed: 10/25/10 18:06

Sample Name: OW-302S
 Lab Code: R1005822-002

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: U3017.D

Analysis Lot: 222193
 Instrument Name: R-MS-12
 Dilution Factor: 500

CAS No.	Analyte Name	Result	Q	MRL	Note
67-64-1	Acetone	10000	U	10000	
71-43-2	Benzene	2500	U	2500	
75-27-4	Bromodichloromethane	2500	U	2500	
75-25-2	Bromoform	2500	U	2500	
74-83-9	Bromomethane	2500	U	2500	
78-93-3	2-Butanone (MEK)	5000	U	5000	
75-15-0	Carbon Disulfide	5000	U	5000	
56-23-5	Carbon Tetrachloride	2500	U	2500	
108-90-7	Chlorobenzene	2500	U	2500	
75-00-3	Chloroethane	74000		2500	
67-66-3	Chloroform	2500	U	2500	
74-87-3	Chloromethane	2500	U	2500	
124-48-1	Dibromochloromethane	2500	U	2500	
75-34-3	1,1-Dichloroethane	10000		2500	
107-06-2	1,2-Dichloroethane	2500	U	2500	
75-35-4	1,1-Dichloroethene	2500	U	2500	
156-59-2	cis-1,2-Dichloroethene	2500	U	2500	
156-60-5	trans-1,2-Dichloroethene	2500	U	2500	
78-87-5	1,2-Dichloropropane	2500	U	2500	
10061-01-5	cis-1,3-Dichloropropene	2500	U	2500	
10061-02-6	trans-1,3-Dichloropropene	2500	U	2500	
100-41-4	Ethylbenzene	2500	U	2500	
591-78-6	2-Hexanone	5000	U	5000	
75-09-2	Methylene Chloride	2500	U	2500	
108-10-1	4-Methyl-2-pentanone (MIBK)	5000	U	5000	
100-42-5	Styrene	2500	U	2500	
79-34-5	1,1,2,2-Tetrachloroethane	2500	U	2500	
127-18-4	Tetrachloroethene	2500	U	2500	
108-88-3	Toluene	2500	U	2500	
71-55-6	1,1,1-Trichloroethane	2500	U	2500	
79-00-5	1,1,2-Trichloroethane	2500	U	2500	
79-01-6	Trichloroethene	2500	U	2500	
75-01-4	Vinyl Chloride	2500	U	2500	
95-47-6	o-Xylene	2500	U	2500	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water

Service Request: R1005822
Date Collected: 10/18/10 1115
Date Received: 10/20/10
Date Analyzed: 10/25/10 18:06

Sample Name: OW-302S
Lab Code: R1005822-002

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: U3017.D

Analysis Lot: 222193
Instrument Name: R-MS-12
Dilution Factor: 500

CAS No.	Analyte Name	Result	Q	MRL	Note
179601-23-1	m,p-Xylenes	2500	U	2500	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	102	85-122	10/25/10 18:06	
Toluene-d8	105	87-121	10/25/10 18:06	
Dibromofluoromethane	107	89-119	10/25/10 18:06	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water

Service Request: R1005822
Date Collected: 10/18/10 1115
Date Received: 10/20/10
Date Analyzed: 10/26/10 10:36

Sample Name: OW-302S
Lab Code: R1005822-002

Units: µg/L
Basis: NA

Dissolved Gases by GC/FID

Analytical Method: RSK 175
Data File Name: star911.run

Analysis Lot: 222451
Instrument Name: R-GC-02
Dilution Factor: 10

CAS No.	Analyte Name	Result Q	MRL	Note
74-84-0	Ethane	10 U	10	
74-85-1	Ethylene	10 U	10	
74-82-8	Methane	1300 E	20	
74-98-6	Propane	10 U	10	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water

Service Request: R1005822
Date Collected: 10/18/10 1115
Date Received: 10/20/10
Date Analyzed: 10/26/10 10:47

Sample Name: OW-302S
Lab Code: R1005822-002
Run Type: Dilution

Units: µg/L
Basis: NA

Dissolved Gases by GC/FID

Analytical Method: RSK 175
Data File Name: star912.run

Analysis Lot: 222451
Instrument Name: R-GC-02
Dilution Factor: 20

CAS No.	Analyte Name	Result Q	MRL	Note
74-84-0	Ethane	20 U	20	
74-85-1	Ethylene	20 U	20	
74-82-8	Methane	1300 D	40	
74-98-6	Propane	20 U	20	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water
Sample Name: MW-501
Lab Code: R1005822-003

Service Request: R1005822
Date Collected: 10/18/10 1330
Date Received: 10/20/10

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Alkalinity as CaCO ₃ , Total	SM 2320 B	381		mg/L	2.0	1	NA	10/28/10 08:03	
Chloride	9056A	1460		mg/L	80	400	NA	10/21/10 18:06	
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	0.33		mg/L	0.10	1	NA	10/20/10 10:45	*
Nitrate as Nitrogen	9056A	1.0	U	mg/L	1.0	10	NA	10/20/10 10:34	
Nitrite as Nitrogen	353.2	0.010	U	mg/L	0.010	1	NA	10/20/10 17:24	*
Sulfate	9056A	7.3		mg/L	2.0	10	NA	10/20/10 10:34	
Sulfide, Acid-Soluble	9034	1.4		mg/L	1.0	1	10/22/10	10/22/10 08:30	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water
Sample Name: MW-501
Lab Code: R1005822-003

Service Request: R1005822
Date Collected: 10/18/10 1330
Date Received: 10/20/10

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Iron, Total	6010C	6370	µg/L	100	1	10/21/10	10/26/10 16:32	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/70665-001
 Sample Matrix: Water

Service Request: R1005822
 Date Collected: 10/18/10 1330
 Date Received: 10/20/10
 Date Analyzed: 10/23/10 07:29

Sample Name: MW-501
 Lab Code: R1005822-003

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: U2984.D

Analysis Lot: 221950
 Instrument Name: R-MS-12
 Dilution Factor: 2.5

CAS No.	Analyte Name	Result	Q	MRL	Note
67-64-1	Acetone	50	U	50	
71-43-2	Benzene	13	U	13	
75-27-4	Bromodichloromethane	13	U	13	
75-25-2	Bromoform	13	U	13	
74-83-9	Bromomethane	13	U	13	
78-93-3	2-Butanone (MEK)	25	U	25	
75-15-0	Carbon Disulfide	25	U	25	
56-23-5	Carbon Tetrachloride	13	U	13	
108-90-7	Chlorobenzene	13	U	13	
75-00-3	Chloroethane	500	E	13	
67-66-3	Chloroform	13	U	13	
74-87-3	Chloromethane	13	U	13	
124-48-1	Dibromochloromethane	13	U	13	
75-34-3	1,1-Dichloroethane	89		13	
107-06-2	1,2-Dichloroethane	13	U	13	
75-35-4	1,1-Dichloroethene	13	U	13	
156-59-2	cis-1,2-Dichloroethene	13	U	13	
156-60-5	trans-1,2-Dichloroethene	13	U	13	
78-87-5	1,2-Dichloropropane	13	U	13	
10061-01-5	cis-1,3-Dichloropropene	13	U	13	
10061-02-6	trans-1,3-Dichloropropene	13	U	13	
100-41-4	Ethylbenzene	13	U	13	
591-78-6	2-Hexanone	25	U	25	
75-09-2	Methylene Chloride	13	U	13	
108-10-1	4-Methyl-2-pentanone (MIBK)	25	U	25	
100-42-5	Styrene	13	U	13	
79-34-5	1,1,2,2-Tetrachloroethane	13	U	13	
127-18-4	Tetrachloroethene	13	U	13	
108-88-3	Toluene	13	U	13	
71-55-6	1,1,1-Trichloroethane	13	U	13	
79-00-5	1,1,2-Trichloroethane	13	U	13	
79-01-6	Trichloroethene	13	U	13	
75-01-4	Vinyl Chloride	95		13	
95-47-6	o-Xylene	13	U	13	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water

Service Request: R1005822
Date Collected: 10/18/10 1330
Date Received: 10/20/10
Date Analyzed: 10/23/10 07:29

Sample Name: MW-501
Lab Code: R1005822-003

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: U2984.D

Analysis Lot: 221950
Instrument Name: R-MS-12
Dilution Factor: 2.5

CAS No.	Analyte Name	Result Q	MRL	Note
179601-23-1	m,p-Xylenes	13 U	13	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	104	85-122	10/23/10 07:29	
Toluene-d8	105	87-121	10/23/10 07:29	
Dibromofluoromethane	109	89-119	10/23/10 07:29	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/70665-001
 Sample Matrix: Water

Service Request: R1005822
 Date Collected: 10/18/10 1330
 Date Received: 10/20/10
 Date Analyzed: 10/25/10 17:35

Sample Name: MW-501
 Lab Code: R1005822-003
 Run Type: Dilution

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: U3016.D

Analysis Lot: 222193
 Instrument Name: R-MS-12
 Dilution Factor: 5

CAS No.	Analyte Name	Result	Q	MRL	Note
67-64-1	Acetone	100	U	100	
71-43-2	Benzene	25	U	25	
75-27-4	Bromodichloromethane	25	U	25	
75-25-2	Bromoform	25	U	25	
74-83-9	Bromomethane	25	U	25	
78-93-3	2-Butanone (MEK)	50	U	50	
75-15-0	Carbon Disulfide	50	U	50	
56-23-5	Carbon Tetrachloride	25	U	25	
108-90-7	Chlorobenzene	25	U	25	
75-00-3	Chloroethane	490	D	25	
67-66-3	Chloroform	25	U	25	
74-87-3	Chloromethane	25	U	25	
124-48-1	Dibromochloromethane	25	U	25	
75-34-3	1,1-Dichloroethane	88	D	25	
107-06-2	1,2-Dichloroethane	25	U	25	
75-35-4	1,1-Dichloroethene	25	U	25	
156-59-2	cis-1,2-Dichloroethene	25	U	25	
156-60-5	trans-1,2-Dichloroethene	25	U	25	
78-87-5	1,2-Dichloropropane	25	U	25	
10061-01-5	cis-1,3-Dichloropropene	25	U	25	
10061-02-6	trans-1,3-Dichloropropene	25	U	25	
100-41-4	Ethylbenzene	25	U	25	
591-78-6	2-Hexanone	50	U	50	
75-09-2	Methylene Chloride	25	U	25	
108-10-1	4-Methyl-2-pentanone (MIBK)	50	U	50	
100-42-5	Styrene	25	U	25	
79-34-5	1,1,2,2-Tetrachloroethane	25	U	25	
127-18-4	Tetrachloroethene	25	U	25	
108-88-3	Toluene	25	U	25	
71-55-6	1,1,1-Trichloroethane	25	U	25	
79-00-5	1,1,2-Trichloroethane	25	U	25	
79-01-6	Trichloroethene	25	U	25	
75-01-4	Vinyl Chloride	95	D	25	
95-47-6	o-Xylene	25	U	25	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water

Service Request: R1005822
Date Collected: 10/18/10 1330
Date Received: 10/20/10
Date Analyzed: 10/25/10 17:35

Sample Name: MW-501
Lab Code: R1005822-003
Run Type: Dilution

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: U3016.D

Analysis Lot: 222193
Instrument Name: R-MS-12
Dilution Factor: 5

CAS No.	Analyte Name	Result Q	MRL	Note
179601-23-1	m,p-Xylenes	25 U	25	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	102	85-122	10/25/10 17:35	
Toluene-d8	105	87-121	10/25/10 17:35	
Dibromofluoromethane	108	89-119	10/25/10 17:35	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water

Service Request: R1005822
Date Collected: 10/18/10 1330
Date Received: 10/20/10
Date Analyzed: 10/26/10 12:53

Sample Name: MW-501
Lab Code: R1005822-003

Units: µg/L
Basis: NA

Dissolved Gases by GC/FID

Analytical Method: RSK 175
Data File Name: star915.run

Analysis Lot: 222451
Instrument Name: R-GC-02
Dilution Factor: 125

CAS No.	Analyte Name	Result Q	MRL	Note
74-84-0	Ethane	130 U	130	
74-85-1	Ethylene	130 U	130	
74-82-8	Methane	9700	250	
74-98-6	Propane	130 U	130	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water
Sample Name: MW-205
Lab Code: R1005822-004

Service Request: R1005822
Date Collected: 10/18/10 1515
Date Received: 10/20/10

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Alkalinity as CaCO ₃ , Total	SM 2320 B	2750		mg/L	2.0	1	NA	10/28/10 13:41	
Chloride	9056A	762		mg/L	20	100	NA	10/20/10 12:06	
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	5.0	U	mg/L	5.0	50	NA	10/20/10 10:45	*
Nitrate as Nitrogen	9056A	4.0	U	mg/L	4.0	40	NA	10/20/10 11:53	
Nitrite as Nitrogen	353.2	0.050	U	mg/L	0.050	5	NA	10/20/10 17:58	*
Sulfate	9056A	10.9		mg/L	2.0	10	NA	10/20/10 10:47	
Sulfide, Acid-Soluble	9034	1.0	U	mg/L	1.0	1	10/22/10	10/22/10 08:30	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water
Sample Name: MW-205
Lab Code: R1005822-004

Service Request: R1005822
Date Collected: 10/18/10 1515
Date Received: 10/20/10

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Iron, Total	6010C	105000	µg/L	100	1	10/21/10	10/26/10 16:36	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/70665-001
 Sample Matrix: Water

Service Request: R1005822
 Date Collected: 10/18/10 1515
 Date Received: 10/20/10
 Date Analyzed: 10/25/10 18:37

Sample Name: MW-205
 Lab Code: R1005822-004

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: U3018.D

Analysis Lot: 222193
 Instrument Name: R-MS-12
 Dilution Factor: 2000

CAS No.	Analyte Name	Result	Q	MRL	Note
67-64-1	Acetone	40000	U	40000	
71-43-2	Benzene	10000	U	10000	
75-27-4	Bromodichloromethane	10000	U	10000	
75-25-2	Bromoform	10000	U	10000	
74-83-9	Bromomethane	10000	U	10000	
78-93-3	2-Butanone (MEK)	20000	U	20000	
75-15-0	Carbon Disulfide	20000	U	20000	
56-23-5	Carbon Tetrachloride	10000	U	10000	
108-90-7	Chlorobenzene	10000	U	10000	
75-00-3	Chloroethane	10000	U	10000	
67-66-3	Chloroform	10000	U	10000	
74-87-3	Chloromethane	10000	U	10000	
124-48-1	Dibromochloromethane	10000	U	10000	
75-34-3	1,1-Dichloroethane	220000		10000	
107-06-2	1,2-Dichloroethane	10000	U	10000	
75-35-4	1,1-Dichloroethene	10000	U	10000	
156-59-2	cis-1,2-Dichloroethene	10000	U	10000	
156-60-5	trans-1,2-Dichloroethene	10000	U	10000	
78-87-5	1,2-Dichloropropane	10000	U	10000	
10061-01-5	cis-1,3-Dichloropropene	10000	U	10000	
10061-02-6	trans-1,3-Dichloropropene	10000	U	10000	
100-41-4	Ethylbenzene	10000	U	10000	
591-78-6	2-Hexanone	20000	U	20000	
75-09-2	Methylene Chloride	10000	U	10000	
108-10-1	4-Methyl-2-pentanone (MIBK)	20000	U	20000	
100-42-5	Styrene	10000	U	10000	
79-34-5	1,1,2,2-Tetrachloroethane	10000	U	10000	
127-18-4	Tetrachloroethene	10000	U	10000	
108-88-3	Toluene	10000	U	10000	
71-55-6	1,1,1-Trichloroethane	160000		10000	
79-00-5	1,1,2-Trichloroethane	10000	U	10000	
79-01-6	Trichloroethene	10000	U	10000	
75-01-4	Vinyl Chloride	10000	U	10000	
95-47-6	o-Xylene	10000	U	10000	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water

Service Request: R1005822
Date Collected: 10/18/10 1515
Date Received: 10/20/10
Date Analyzed: 10/25/10 18:37

Sample Name: MW-205
Lab Code: R1005822-004

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: U3018.D

Analysis Lot: 222193
Instrument Name: R-MS-12
Dilution Factor: 2000

CAS No.	Analyte Name	Result	Q	MRL	Note
179601-23-1	m,p-Xylenes	10000	U	10000	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	104	85-122	10/25/10 18:37	
Toluene-d8	106	87-121	10/25/10 18:37	
Dibromofluoromethane	109	89-119	10/25/10 18:37	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water

Service Request: R1005822
Date Collected: 10/18/10 1515
Date Received: 10/20/10
Date Analyzed: 10/26/10 13:18

Sample Name: MW-205
Lab Code: R1005822-004

Units: µg/L
Basis: NA

Dissolved Gases by GC/FID

Analytical Method: RSK 175
Data File Name: star916.run

Analysis Lot: 222451
Instrument Name: R-GC-02
Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	Note
74-84-0	Ethane	5.7	1.0	
74-85-1	Ethylene	6.2	1.0	
74-82-8	Methane	5.6	2.0	
74-98-6	Propane	1.0 U	1.0	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water

Service Request: R1005822
Date Collected: 10/18/10 1515
Date Received: 10/20/10
Date Analyzed: 10/27/10 12:25

Sample Name: MW-205
Lab Code: R1005822-004

Units: mg/L
Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC)

Analytical Method: Organic Acids
Data File Name: J:\ACQU\DATA\HPLC05\DATA\102610\X0004844.D\QUANT.CSV

Analysis Lot: 222370
Instrument Name: R-HPLC-05
Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
127-17-3	Pyruvic Acid	0.50	U	0.50	
64-19-7	Acetic Acid	450	E	1.0	
107-92-6	Butyric Acid	2800	E	2.0	
50-21-5	Lactic Acid	1.0	U	1.0	
79-09-4	Propionic Acid	860	E	1.0	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water

Service Request: R1005822
Date Collected: 10/18/10 1515
Date Received: 10/20/10
Date Analyzed: 10/27/10 17:26

Sample Name: MW-205
Lab Code: R1005822-004
Run Type: Dilution

Units: mg/L
Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC)

Analytical Method: Organic Acids
Data File Name: J:\ACQUDATA\HPLC05\DATA\102610\X0004849.D\QUANT.CSV

Analysis Lot: 222370
Instrument Name: R-HPLC-05
Dilution Factor: 20

CAS No.	Analyte Name	Result	Q	MRL	Note
127-17-3	Pyruvic Acid	10	U	10	
64-19-7	Acetic Acid	430	D	20	
107-92-6	Butyric Acid	2600	D	40	
50-21-5	Lactic Acid	20	U	20	
79-09-4	Propionic Acid	850	D	20	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water
Sample Name: MW-502
Lab Code: R1005822-005

Service Request: R1005822
Date Collected: 10/18/10 1700
Date Received: 10/20/10

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Alkalinity as CaCO ₃ , Total	SM 2320 B	751		mg/L	2.0	1	NA	10/28/10 08:03	
Chloride	9056A	606		mg/L	20	100	NA	10/20/10 16:54	
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	0.92		mg/L	0.10	1	NA	10/20/10 10:45	*
Nitrate as Nitrogen	9056A	1.0	U	mg/L	1.0	10	NA	10/20/10 11:01	
Nitrite as Nitrogen	353.2	0.010	U	mg/L	0.010	1	NA	10/20/10 17:24	*
Sulfate	9056A	2.0	U	mg/L	2.0	10	NA	10/20/10 11:01	
Sulfide, Acid-Soluble	9034	1.8		mg/L	1.0	1	10/22/10	10/22/10 08:30	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water
Sample Name: MW-502
Lab Code: R1005822-005

Service Request: R1005822
Date Collected: 10/18/10 1700
Date Received: 10/20/10

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Iron, Total	6010C	260000		µg/L	100	1	10/21/10	10/26/10 16:41	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/70665-001
 Sample Matrix: Water

Service Request: R1005822
 Date Collected: 10/18/10 1700
 Date Received: 10/20/10
 Date Analyzed: 10/25/10 19:08

Sample Name: MW-502
 Lab Code: R1005822-005

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: U3019.D

Analysis Lot: 222193
 Instrument Name: R-MS-12
 Dilution Factor: 100

CAS No.	Analyte Name	Result	Q	MRL	Note
67-64-1	Acetone	2000	U	2000	
71-43-2	Benzene	500	U	500	
75-27-4	Bromodichloromethane	500	U	500	
75-25-2	Bromoform	500	U	500	
74-83-9	Bromomethane	500	U	500	
78-93-3	2-Butanone (MEK)	1000	U	1000	
75-15-0	Carbon Disulfide	1000	U	1000	
56-23-5	Carbon Tetrachloride	500	U	500	
108-90-7	Chlorobenzene	500	U	500	
75-00-3	Chloroethane	13000		500	
67-66-3	Chloroform	500	U	500	
74-87-3	Chloromethane	500	U	500	
124-48-1	Dibromochloromethane	500	U	500	
75-34-3	1,1-Dichloroethane	500	U	500	
107-06-2	1,2-Dichloroethane	500	U	500	
75-35-4	1,1-Dichloroethene	500	U	500	
156-59-2	cis-1,2-Dichloroethene	500	U	500	
156-60-5	trans-1,2-Dichloroethene	500	U	500	
78-87-5	1,2-Dichloropropane	500	U	500	
10061-01-5	cis-1,3-Dichloropropene	500	U	500	
10061-02-6	trans-1,3-Dichloropropene	500	U	500	
100-41-4	Ethylbenzene	500	U	500	
591-78-6	2-Hexanone	1000	U	1000	
75-09-2	Methylene Chloride	500	U	500	
108-10-1	4-Methyl-2-pentanone (MIBK)	1000	U	1000	
100-42-5	Styrene	500	U	500	
79-34-5	1,1,2,2-Tetrachloroethane	500	U	500	
127-18-4	Tetrachloroethene	500	U	500	
108-88-3	Toluene	500	U	500	
71-55-6	1,1,1-Trichloroethane	500	U	500	
79-00-5	1,1,2-Trichloroethane	500	U	500	
79-01-6	Trichloroethene	500	U	500	
75-01-4	Vinyl Chloride	500	U	500	
95-47-6	o-Xylene	500	U	500	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water

Service Request: R1005822
Date Collected: 10/18/10 1700
Date Received: 10/20/10
Date Analyzed: 10/25/10 19:08

Sample Name: MW-502
Lab Code: R1005822-005

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: U3019.D

Analysis Lot: 222193
Instrument Name: R-MS-12
Dilution Factor: 100

CAS No.	Analyte Name	Result	Q	MRL	Note
179601-23-1	m,p-Xylenes	500	U	500	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	104	85-122	10/25/10 19:08	
Toluene-d8	107	87-121	10/25/10 19:08	
Dibromofluoromethane	109	89-119	10/25/10 19:08	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water

Service Request: R1005822
Date Collected: 10/18/10 1700
Date Received: 10/20/10
Date Analyzed: 10/26/10 13:29

Sample Name: MW-502
Lab Code: R1005822-005

Units: µg/L
Basis: NA

Dissolved Gases by GC/FID

Analytical Method: RSK 175
Data File Name: star917.run

Analysis Lot: 222451
Instrument Name: R-GC-02
Dilution Factor: 200

CAS No.	Analyte Name	Result Q	MRL	Note
74-84-0	Ethane	200 U	200	
74-85-1	Ethylene	200 U	200	
74-82-8	Methane	11000	400	
74-98-6	Propane	200 U	200	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/70665-001
 Sample Matrix: Water

Service Request: R1005822
 Date Collected: 10/19/10 0920
 Date Received: 10/20/10
 Date Analyzed: 10/25/10 19:39

Sample Name: MW-306
 Lab Code: R1005822-006

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: U3020.D

Analysis Lot: 222193
 Instrument Name: R-MS-12
 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
67-64-1	Acetone	20	U	20	
71-43-2	Benzene	5.0	U	5.0	
75-27-4	Bromodichloromethane	5.0	U	5.0	
75-25-2	Bromoform	5.0	U	5.0	
74-83-9	Bromomethane	5.0	U	5.0	
78-93-3	2-Butanone (MEK)	10	U	10	
75-15-0	Carbon Disulfide	10	U	10	
56-23-5	Carbon Tetrachloride	5.0	U	5.0	
108-90-7	Chlorobenzene	5.0	U	5.0	
75-00-3	Chloroethane	5.0	U	5.0	
67-66-3	Chloroform	5.0	U	5.0	
74-87-3	Chloromethane	5.0	U	5.0	
124-48-1	Dibromochloromethane	5.0	U	5.0	
75-34-3	1,1-Dichloroethane	5.0	U	5.0	
107-06-2	1,2-Dichloroethane	5.0	U	5.0	
75-35-4	1,1-Dichloroethene	5.0	U	5.0	
156-59-2	cis-1,2-Dichloroethene	5.0	U	5.0	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	
78-87-5	1,2-Dichloropropane	5.0	U	5.0	
10061-01-5	cis-1,3-Dichloropropene	5.0	U	5.0	
10061-02-6	trans-1,3-Dichloropropene	5.0	U	5.0	
100-41-4	Ethylbenzene	5.0	U	5.0	
591-78-6	2-Hexanone	10	U	10	
75-09-2	Methylene Chloride	5.0	U	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	
100-42-5	Styrene	5.0	U	5.0	
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	5.0	
127-18-4	Tetrachloroethene	5.0	U	5.0	
108-88-3	Toluene	5.0	U	5.0	
71-55-6	1,1,1-Trichloroethane	5.0	U	5.0	
79-00-5	1,1,2-Trichloroethane	5.0	U	5.0	
79-01-6	Trichloroethene	5.0	U	5.0	
75-01-4	Vinyl Chloride	5.0	U	5.0	
95-47-6	o-Xylene	5.0	U	5.0	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water

Service Request: R1005822
Date Collected: 10/19/10 0920
Date Received: 10/20/10
Date Analyzed: 10/25/10 19:39

Sample Name: MW-306
Lab Code: R1005822-006

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: U3020.D

Analysis Lot: 222193
Instrument Name: R-MS-12
Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	Note
179601-23-1	m,p-Xylenes	5.0 U	5.0	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	105	85-122	10/25/10 19:39	
Toluene-d8	106	87-121	10/25/10 19:39	
Dibromofluoromethane	110	89-119	10/25/10 19:39	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/70665-001
 Sample Matrix: Water

Service Request: R1005822
 Date Collected: 10/19/10 1105
 Date Received: 10/20/10
 Date Analyzed: 10/23/10 08:00

Sample Name: MW-203
 Lab Code: R1005822-007

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: U2985.D

Analysis Lot: 221950
 Instrument Name: R-MS-12
 Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	Note
67-64-1	Acetone	20 U	20	
71-43-2	Benzene	5.0 U	5.0	
75-27-4	Bromodichloromethane	5.0 U	5.0	
75-25-2	Bromoform	5.0 U	5.0	
74-83-9	Bromomethane	5.0 U	5.0	
78-93-3	2-Butanone (MEK)	10 U	10	
75-15-0	Carbon Disulfide	10 U	10	
56-23-5	Carbon Tetrachloride	5.0 U	5.0	
108-90-7	Chlorobenzene	5.0 U	5.0	
75-00-3	Chloroethane	5.0 U	5.0	
67-66-3	Chloroform	5.0 U	5.0	
74-87-3	Chloromethane	5.0 U	5.0	
124-48-1	Dibromochloromethane	5.0 U	5.0	
75-34-3	1,1-Dichloroethane	5.0 U	5.0	
107-06-2	1,2-Dichloroethane	5.0 U	5.0	
75-35-4	1,1-Dichloroethene	5.0 U	5.0	
156-59-2	cis-1,2-Dichloroethene	5.0 U	5.0	
156-60-5	trans-1,2-Dichloroethene	5.0 U	5.0	
78-87-5	1,2-Dichloropropane	5.0 U	5.0	
10061-01-5	cis-1,3-Dichloropropene	5.0 U	5.0	
10061-02-6	trans-1,3-Dichloropropene	5.0 U	5.0	
100-41-4	Ethylbenzene	5.0 U	5.0	
591-78-6	2-Hexanone	10 U	10	
75-09-2	Methylene Chloride	5.0 U	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	10 U	10	
100-42-5	Styrene	5.0 U	5.0	
79-34-5	1,1,2,2-Tetrachloroethane	5.0 U	5.0	
127-18-4	Tetrachloroethene	5.0 U	5.0	
108-88-3	Toluene	5.0 U	5.0	
71-55-6	1,1,1-Trichloroethane	5.0 U	5.0	
79-00-5	1,1,2-Trichloroethane	5.0 U	5.0	
79-01-6	Trichloroethene	5.0 U	5.0	
75-01-4	Vinyl Chloride	5.0 U	5.0	
95-47-6	o-Xylene	5.0 U	5.0	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water

Service Request: R1005822
Date Collected: 10/19/10 1105
Date Received: 10/20/10
Date Analyzed: 10/23/10 08:00

Sample Name: MW-203
Lab Code: R1005822-007

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: U2985.D

Analysis Lot: 221950
Instrument Name: R-MS-12
Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
179601-23-1	m,p-Xylenes	5.0	U	5.0	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	104	85-122	10/23/10 08:00	
Toluene-d8	105	87-121	10/23/10 08:00	
Dibromofluoromethane	109	89-119	10/23/10 08:00	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water
Sample Name: MW-3
Lab Code: R1005822-008

Service Request: R1005822
Date Collected: 10/19/10 1245
Date Received: 10/20/10

Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Alkalinity as CaCO ₃ , Total	SM 2320 B	212		mg/L	2.0	1	NA	10/28/10 08:03	
Chloride	9056A	290		mg/L	20	100	NA	10/20/10 17:07	
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	0.24		mg/L	0.10	1	NA	10/20/10 10:45	*
Nitrate as Nitrogen	9056A	1.0	U	mg/L	1.0	10	NA	10/20/10 11:14	
Nitrite as Nitrogen	353.2	0.010	U	mg/L	0.010	1	NA	10/20/10 17:24	
Sulfate	9056A	3.2		mg/L	2.0	10	NA	10/20/10 11:14	
Sulfide, Acid-Soluble	9034	1.0	U	mg/L	1.0	1	10/22/10	10/22/10 08:30	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water
Sample Name: MW-3
Lab Code: R1005822-008

Service Request: R1005822
Date Collected: 10/19/10 1245
Date Received: 10/20/10

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Iron, Total	6010C	6700	µg/L	100	1	10/21/10	10/26/10 16:53	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/70665-001
 Sample Matrix: Water

Service Request: R1005822
 Date Collected: 10/19/10 1245
 Date Received: 10/20/10
 Date Analyzed: 10/23/10 08:31

Sample Name: MW-3
 Lab Code: R1005822-008

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: U2986.D

Analysis Lot: 221950
 Instrument Name: R-MS-12
 Dilution Factor: 10

CAS No.	Analyte Name	Result	Q	MRL	Note
67-64-1	Acetone	200	U	200	
71-43-2	Benzene	50	U	50	
75-27-4	Bromodichloromethane	50	U	50	
75-25-2	Bromoform	50	U	50	
74-83-9	Bromomethane	50	U	50	
78-93-3	2-Butanone (MEK)	100	U	100	
75-15-0	Carbon Disulfide	100	U	100	
56-23-5	Carbon Tetrachloride	50	U	50	
108-90-7	Chlorobenzene	50	U	50	
75-00-3	Chloroethane	1700		50	
67-66-3	Chloroform	50	U	50	
74-87-3	Chloromethane	50	U	50	
124-48-1	Dibromochloromethane	50	U	50	
75-34-3	1,1-Dichloroethane	160		50	
107-06-2	1,2-Dichloroethane	50	U	50	
75-35-4	1,1-Dichloroethene	50	U	50	
156-59-2	cis-1,2-Dichloroethene	50	U	50	
156-60-5	trans-1,2-Dichloroethene	50	U	50	
78-87-5	1,2-Dichloropropane	50	U	50	
10061-01-5	cis-1,3-Dichloropropene	50	U	50	
10061-02-6	trans-1,3-Dichloropropene	50	U	50	
100-41-4	Ethylbenzene	50	U	50	
591-78-6	2-Hexanone	100	U	100	
75-09-2	Methylene Chloride	50	U	50	
108-10-1	4-Methyl-2-pentanone (MIBK)	100	U	100	
100-42-5	Styrene	50	U	50	
79-34-5	1,1,2,2-Tetrachloroethane	50	U	50	
127-18-4	Tetrachloroethene	50	U	50	
108-88-3	Toluene	50	U	50	
71-55-6	1,1,1-Trichloroethane	50	U	50	
79-00-5	1,1,2-Trichloroethane	50	U	50	
79-01-6	Trichloroethene	50	U	50	
75-01-4	Vinyl Chloride	380		50	
95-47-6	o-Xylene	50	U	50	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water

Service Request: R1005822
Date Collected: 10/19/10 1245
Date Received: 10/20/10
Date Analyzed: 10/23/10 08:31

Sample Name: MW-3
Lab Code: R1005822-008

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: U2986.D

Analysis Lot: 221950
Instrument Name: R-MS-12
Dilution Factor: 10

CAS No.	Analyte Name	Result Q	MRL	Note
179601-23-1	m,p-Xylenes	50 U	50	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	103	85-122	10/23/10 08:31	
Toluene-d8	106	87-121	10/23/10 08:31	
Dibromofluoromethane	108	89-119	10/23/10 08:31	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water

Service Request: R1005822
Date Collected: 10/19/10 1245
Date Received: 10/20/10
Date Analyzed: 10/26/10 13:58

Sample Name: MW-3
Lab Code: R1005822-008

Units: µg/L
Basis: NA

Dissolved Gases by GC/FID

Analytical Method: RSK 175
Data File Name: star918.run

Analysis Lot: 222451
Instrument Name: R-GC-02
Dilution Factor: 10

CAS No.	Analyte Name	Result Q	MRL	Note
74-84-0	Ethane	10 U	10	
74-85-1	Ethylene	31	10	
74-82-8	Methane	1500 E	20	
74-98-6	Propane	10 U	10	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water

Service Request: R1005822
Date Collected: 10/19/10 1245
Date Received: 10/20/10
Date Analyzed: 10/26/10 14:10

Sample Name: MW-3
Lab Code: R1005822-008
Run Type: Dilution

Units: µg/L
Basis: NA

Dissolved Gases by GC/FID

Analytical Method: RSK 175
Data File Name: star919.run

Analysis Lot: 222451
Instrument Name: R-GC-02
Dilution Factor: 25

CAS No.	Analyte Name	Result Q	MRL	Note
74-84-0	Ethane	25 U	25	
74-85-1	Ethylene	32 D	25	
74-82-8	Methane	1600 D	50	
74-98-6	Propane	25 U	25	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/70665-001
 Sample Matrix: Water

Service Request: R1005822
 Date Collected: 10/19/10 1345
 Date Received: 10/20/10
 Date Analyzed: 10/23/10 09:02

Sample Name: MW-204
 Lab Code: R1005822-009

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: U2987.D

Analysis Lot: 221950
 Instrument Name: R-MS-12
 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
67-64-1	Acetone	20	U	20	
71-43-2	Benzene	5.0	U	5.0	
75-27-4	Bromodichloromethane	5.0	U	5.0	
75-25-2	Bromoform	5.0	U	5.0	
74-83-9	Bromomethane	5.0	U	5.0	
78-93-3	2-Butanone (MEK)	10	U	10	
75-15-0	Carbon Disulfide	10	U	10	
56-23-5	Carbon Tetrachloride	5.0	U	5.0	
108-90-7	Chlorobenzene	5.0	U	5.0	
75-00-3	Chloroethane	5.0	U	5.0	
67-66-3	Chloroform	5.0	U	5.0	
74-87-3	Chloromethane	5.0	U	5.0	
124-48-1	Dibromochloromethane	5.0	U	5.0	
75-34-3	1,1-Dichloroethane	13		5.0	
107-06-2	1,2-Dichloroethane	5.0	U	5.0	
75-35-4	1,1-Dichloroethene	13		5.0	
156-59-2	cis-1,2-Dichloroethene	5.0	U	5.0	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	
78-87-5	1,2-Dichloropropane	5.0	U	5.0	
10061-01-5	cis-1,3-Dichloropropene	5.0	U	5.0	
10061-02-6	trans-1,3-Dichloropropene	5.0	U	5.0	
100-41-4	Ethylbenzene	5.0	U	5.0	
591-78-6	2-Hexanone	10	U	10	
75-09-2	Methylene Chloride	5.0	U	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	
100-42-5	Styrene	5.0	U	5.0	
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	5.0	
127-18-4	Tetrachloroethene	5.0	U	5.0	
108-88-3	Toluene	5.0	U	5.0	
71-55-6	1,1,1-Trichloroethane	6.3		5.0	
79-00-5	1,1,2-Trichloroethane	5.0	U	5.0	
79-01-6	Trichloroethene	5.0	U	5.0	
75-01-4	Vinyl Chloride	5.0	U	5.0	
95-47-6	o-Xylene	5.0	U	5.0	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water

Service Request: R1005822
Date Collected: 10/19/10 1345
Date Received: 10/20/10
Date Analyzed: 10/23/10 09:02

Sample Name: MW-204
Lab Code: R1005822-009

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: U2987.D

Analysis Lot: 221950
Instrument Name: R-MS-12
Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
179601-23-1	m,p-Xylenes	5.0	U	5.0	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	103	85-122	10/23/10 09:02	
Toluene-d8	105	87-121	10/23/10 09:02	
Dibromofluoromethane	107	89-119	10/23/10 09:02	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/70665-001
 Sample Matrix: Water

Service Request: R1005822
 Date Collected: 10/19/10 1530
 Date Received: 10/20/10
 Date Analyzed: 10/25/10 20:10

Sample Name: MW-202
 Lab Code: R1005822-010

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: U3021.D

Analysis Lot: 222193
 Instrument Name: R-MS-12
 Dilution Factor: 10

CAS No.	Analyte Name	Result	Q	MRL	Note
67-64-1	Acetone	200	U	200	
71-43-2	Benzene	50	U	50	
75-27-4	Bromodichloromethane	50	U	50	
75-25-2	Bromoform	50	U	50	
74-83-9	Bromomethane	50	U	50	
78-93-3	2-Butanone (MEK)	100	U	100	
75-15-0	Carbon Disulfide	100	U	100	
56-23-5	Carbon Tetrachloride	50	U	50	
108-90-7	Chlorobenzene	50	U	50	
75-00-3	Chloroethane	50	U	50	
67-66-3	Chloroform	50	U	50	
74-87-3	Chloromethane	50	U	50	
124-48-1	Dibromochloromethane	50	U	50	
75-34-3	1,1-Dichloroethane	50	U	50	
107-06-2	1,2-Dichloroethane	50	U	50	
75-35-4	1,1-Dichloroethene	50	U	50	
156-59-2	cis-1,2-Dichloroethene	50	U	50	
156-60-5	trans-1,2-Dichloroethene	50	U	50	
78-87-5	1,2-Dichloropropane	50	U	50	
10061-01-5	cis-1,3-Dichloropropene	50	U	50	
10061-02-6	trans-1,3-Dichloropropene	50	U	50	
100-41-4	Ethylbenzene	50	U	50	
591-78-6	2-Hexanone	100	U	100	
75-09-2	Methylene Chloride	50	U	50	
108-10-1	4-Methyl-2-pentanone (MIBK)	100	U	100	
100-42-5	Styrene	50	U	50	
79-34-5	1,1,2,2-Tetrachloroethane	50	U	50	
127-18-4	Tetrachloroethene	50	U	50	
108-88-3	Toluene	50	U	50	
71-55-6	1,1,1-Trichloroethane	50	U	50	
79-00-5	1,1,2-Trichloroethane	50	U	50	
79-01-6	Trichloroethene	50	U	50	
75-01-4	Vinyl Chloride	50	U	50	
95-47-6	o-Xylene	50	U	50	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water

Service Request: R1005822
Date Collected: 10/19/10 1530
Date Received: 10/20/10
Date Analyzed: 10/25/10 20:10

Sample Name: MW-202
Lab Code: R1005822-010

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: U3021.D

Analysis Lot: 222193
Instrument Name: R-MS-12
Dilution Factor: 10

CAS No.	Analyte Name	Result Q	MRL	Note
179601-23-1	m,p-Xylenes	50 U	50	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	104	85-122	10/25/10 20:10	
Toluene-d8	105	87-121	10/25/10 20:10	
Dibromofluoromethane	108	89-119	10/25/10 20:10	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ1009489-01

Service Request: R1005822
Date Collected: NA
Date Received: NA
Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Alkalinity as CaCO ₃ , Total	SM 2320 B	2.0	U	mg/L	2.0	1	NA	10/28/10 08:03	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ1009490-01

Service Request: R1005822
Date Collected: NA
Date Received: NA
Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Alkalinity as CaCO ₃ , Total	SM 2320 B	2.0	U	mg/L	2.0	1	NA	10/28/10 08:03	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ1009491-01

Service Request: R1005822
Date Collected: NA
Date Received: NA
Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Alkalinity as CaCO ₃ , Total	SM 2320 B	2.0	U	mg/L	2.0	1	NA	10/28/10 13:41	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ1009130-07

Service Request: R1005822
Date Collected: NA
Date Received: NA
Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chloride	9056A	0.20	U	mg/L	0.20	1	NA	10/20/10 09:49	
Nitrate as Nitrogen	9056A	0.10	U	mg/L	0.10	1	NA	10/20/10 09:49	
Sulfate	9056A	0.20	U	mg/L	0.20	1	NA	10/20/10 09:49	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ1009131-05

Service Request: R1005822
Date Collected: NA
Date Received: NA
Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chloride	9056A	0.20	U	mg/L	0.20	1	NA	10/20/10 15:09	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ1009208-05

Service Request: R1005822
Date Collected: NA
Date Received: NA
Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Chloride	9056A	0.20 U	mg/L	0.20	1	NA	10/21/10 17:27	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ1009190-03

Service Request: R1005822
Date Collected: NA
Date Received: NA
Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	0.10	U	mg/L	0.10	1	NA	10/20/10 10:45	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ1009153-03

Service Request: R1005822
Date Collected: NA
Date Received: NA
Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Nitrite as Nitrogen	353.2	0.010	U	mg/L	0.010	1	NA	10/20/10 17:18	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ1009239-01

Service Request: R1005822
Date Collected: NA
Date Received: NA
Basis: NA

General Chemistry Parameters

Analyte Name	Method	Result Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Sulfide, Acid-Soluble	9034	1.0 U	mg/L	1.0	1	10/22/10	10/22/10 08:30	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ1009142-01

Service Request: R1005822
Date Collected: NA
Date Received: NA

Basis: NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Iron, Total	6010C	100	U	µg/L	100	1	10/21/10	10/26/10 15:37	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/70665-001
 Sample Matrix: Water

Service Request: R1005822
 Date Collected: NA
 Date Received: NA
 Date Analyzed: 10/23/10 00:42

Sample Name: Method Blank
 Lab Code: RQ1009293-08

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: U2971.D

Analysis Lot: 221950
 Instrument Name: R-MS-12
 Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
67-64-1	Acetone	20	U	20	
71-43-2	Benzene	5.0	U	5.0	
75-27-4	Bromodichloromethane	5.0	U	5.0	
75-25-2	Bromoform	5.0	U	5.0	
74-83-9	Bromomethane	5.0	U	5.0	
78-93-3	2-Butanone (MEK)	10	U	10	
75-15-0	Carbon Disulfide	10	U	10	
56-23-5	Carbon Tetrachloride	5.0	U	5.0	
108-90-7	Chlorobenzene	5.0	U	5.0	
75-00-3	Chloroethane	5.0	U	5.0	
67-66-3	Chloroform	5.0	U	5.0	
74-87-3	Chloromethane	5.0	U	5.0	
124-48-1	Dibromochloromethane	5.0	U	5.0	
75-34-3	1,1-Dichloroethane	5.0	U	5.0	
107-06-2	1,2-Dichloroethane	5.0	U	5.0	
75-35-4	1,1-Dichloroethene	5.0	U	5.0	
156-59-2	cis-1,2-Dichloroethene	5.0	U	5.0	
156-60-5	trans-1,2-Dichloroethene	5.0	U	5.0	
78-87-5	1,2-Dichloropropane	5.0	U	5.0	
10061-01-5	cis-1,3-Dichloropropene	5.0	U	5.0	
10061-02-6	trans-1,3-Dichloropropene	5.0	U	5.0	
100-41-4	Ethylbenzene	5.0	U	5.0	
591-78-6	2-Hexanone	10	U	10	
75-09-2	Methylene Chloride	5.0	U	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	10	U	10	
100-42-5	Styrene	5.0	U	5.0	
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U	5.0	
127-18-4	Tetrachloroethene	5.0	U	5.0	
108-88-3	Toluene	5.0	U	5.0	
71-55-6	1,1,1-Trichloroethane	5.0	U	5.0	
79-00-5	1,1,2-Trichloroethane	5.0	U	5.0	
79-01-6	Trichloroethene	5.0	U	5.0	
75-01-4	Vinyl Chloride	5.0	U	5.0	
95-47-6	o-Xylene	5.0	U	5.0	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water

Service Request: R1005822
Date Collected: NA
Date Received: NA
Date Analyzed: 10/23/10 00:42

Sample Name: Method Blank
Lab Code: RQ1009293-08

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: U2971.D

Analysis Lot: 221950
Instrument Name: R-MS-12
Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
179601-23-1	m,p-Xylenes	5.0	U	5.0	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	103	85-122	10/23/10 00:42	
Toluene-d8	106	87-121	10/23/10 00:42	
Dibromofluoromethane	108	89-119	10/23/10 00:42	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/70665-001
 Sample Matrix: Water

Service Request: R1005822
 Date Collected: NA
 Date Received: NA
 Date Analyzed: 10/25/10 12:22

Sample Name: Method Blank
 Lab Code: RQ1009469-04

Units: µg/L
 Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
 Data File Name: U3006.D

Analysis Lot: 222193
 Instrument Name: R-MS-12
 Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	Note
67-64-1	Acetone	20 U	20	
71-43-2	Benzene	5.0 U	5.0	
75-27-4	Bromodichloromethane	5.0 U	5.0	
75-25-2	Bromoform	5.0 U	5.0	
74-83-9	Bromomethane	5.0 U	5.0	
78-93-3	2-Butanone (MEK)	10 U	10	
75-15-0	Carbon Disulfide	10 U	10	
56-23-5	Carbon Tetrachloride	5.0 U	5.0	
108-90-7	Chlorobenzene	5.0 U	5.0	
75-00-3	Chloroethane	5.0 U	5.0	
67-66-3	Chloroform	5.0 U	5.0	
74-87-3	Chloromethane	5.0 U	5.0	
124-48-1	Dibromochloromethane	5.0 U	5.0	
75-34-3	1,1-Dichloroethane	5.0 U	5.0	
107-06-2	1,2-Dichloroethane	5.0 U	5.0	
75-35-4	1,1-Dichloroethene	5.0 U	5.0	
156-59-2	cis-1,2-Dichloroethene	5.0 U	5.0	
156-60-5	trans-1,2-Dichloroethene	5.0 U	5.0	
78-87-5	1,2-Dichloropropane	5.0 U	5.0	
10061-01-5	cis-1,3-Dichloropropene	5.0 U	5.0	
10061-02-6	trans-1,3-Dichloropropene	5.0 U	5.0	
100-41-4	Ethylbenzene	5.0 U	5.0	
591-78-6	2-Hexanone	10 U	10	
75-09-2	Methylene Chloride	5.0 U	5.0	
108-10-1	4-Methyl-2-pentanone (MIBK)	10 U	10	
100-42-5	Styrene	5.0 U	5.0	
79-34-5	1,1,2,2-Tetrachloroethane	5.0 U	5.0	
127-18-4	Tetrachloroethene	5.0 U	5.0	
108-88-3	Toluene	5.0 U	5.0	
71-55-6	1,1,1-Trichloroethane	5.0 U	5.0	
79-00-5	1,1,2-Trichloroethane	5.0 U	5.0	
79-01-6	Trichloroethene	5.0 U	5.0	
75-01-4	Vinyl Chloride	5.0 U	5.0	
95-47-6	o-Xylene	5.0 U	5.0	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water

Service Request: R1005822
Date Collected: NA
Date Received: NA
Date Analyzed: 10/25/10 12:22

Sample Name: Method Blank
Lab Code: RQ1009469-04

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: U3006.D

Analysis Lot: 222193
Instrument Name: R-MS-12
Dilution Factor: 1

CAS No.	Analyte Name	Result	Q	MRL	Note
179601-23-1	m,p-Xylenes	5.0	U	5.0	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	105	85-122	10/25/10 12:22	
Toluene-d8	106	87-121	10/25/10 12:22	
Dibromofluoromethane	109	89-119	10/25/10 12:22	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water

Service Request: R1005822
Date Collected: NA
Date Received: NA
Date Analyzed: 10/26/10 08:39

Sample Name: Method Blank
Lab Code: RQ1009365-01

Units: µg/L
Basis: NA

Dissolved Gases by GC/FID

Analytical Method: RSK 175
Data File Name: star902.run

Analysis Lot: 222451
Instrument Name: R-GC-02
Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	Note
74-84-0	Ethane	1.0 U	1.0	
74-85-1	Ethylene	1.0 U	1.0	
74-82-8	Methane	2.0 U	2.0	
74-98-6	Propane	1.0 U	1.0	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water

Service Request: R1005822
Date Collected: NA
Date Received: NA
Date Analyzed: 10/26/10 16:52

Sample Name: Method Blank
Lab Code: RQ1009358-01

Units: mg/L
Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC)

Analytical Method: Organic Acids
Data File Name: J:\ACQU\DATA\HPLC05\DATA\102610\X0004825.D\QUANT.CSV

Analysis Lot: 222370
Instrument Name: R-HPLC-05
Dilution Factor: 1

CAS No.	Analyte Name	Result Q	MRL	Note
127-17-3	Pyruvic Acid	0.50 U	0.50	
64-19-7	Acetic Acid	1.0 U	1.0	
107-92-6	Butyric Acid	2.0 U	2.0	
50-21-5	Lactic Acid	1.0 U	1.0	
79-09-4	Propionic Acid	1.0 U	1.0	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water

Service Request: R1005822
Date Analyzed: 10/28/10

Lab Control Sample Summary
General Chemistry Parameters

Units: mg/L
Basis: NA

Lab Control Sample RQ1009489-02					
Analyte Name	Method	Result	Spike Amount	% Rec	% Rec Limits
Alkalinity as CaCO ₃ , Total	SM 2320 B	17.2	20.0	86	72 - 115

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Printed 11/3/10 10:00

Form 3C

\\nflow2\Starlims\LimsReps\LabControlSample.rpt

SuperSet Reference: 10-0000158992 rev 00

00063

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water

Service Request: R1005822
Date Analyzed: 10/28/10

Lab Control Sample Summary
General Chemistry Parameters

Units: mg/L
Basis: NA

Lab Control Sample RQ1009490-02					
Analyte Name	Method	Result	Spike Amount	% Rec	% Rec Limits
Alkalinity as CaCO ₃ , Total	SM 2320 B	18.0	20.0	90	72 - 115

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Printed 11/3/10 10:00

Form 3C

\\inflow2\Starlims\LimsReps\LabControlSample.rpt

SuperSet Reference: 10-0000158992 rev 00

00064

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water

Service Request: R1005822
Date Analyzed: 10/28/10

Lab Control Sample Summary
General Chemistry Parameters

Units: mg/L
Basis: NA

Lab Control Sample RQ1009491-02					
Analyte Name	Method	Result	Spike Amount	% Rec	% Rec Limits
Alkalinity as CaCO ₃ , Total	SM 2320 B	962	1000	96	72 - 115

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Printed 11/3/10 10:00

Form 3C

\\Inflow2\Starlims\LimsReps\LabControlSample.rpt

SuperSet Reference: 10-0000158992 rev 00

00065

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water

Service Request: R1005822
Date Analyzed: 10/20/10

**Lab Control Sample Summary
General Chemistry Parameters**

Units: mg/L
Basis: NA

Lab Control Sample RQ1009130-08					
Analyte Name	Method	Result	Spike Amount	% Rec	% Rec Limits
Chloride	9056A	1.96	2.00	98	80 - 120
Sulfate	9056A	1.87	2.00	94	80 - 120
Nitrate as Nitrogen	9056A	0.961	1.00	96	80 - 120

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water

Service Request: R1005822
Date Analyzed: 10/20/10

Lab Control Sample Summary
General Chemistry Parameters

Units: mg/L
Basis: NA

Lab Control Sample RQ1009131-06					
Analyte Name	Method	Result	Spike Amount	% Rec	% Rec Limits
Chloride	9056A	1.96	2.00	98	80 - 120

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Printed 11/3/10 10:00

Form 3C

\\nflow2\Starlims\LimsReps\LabControlSample.rpt

SuperSet Reference: 10-0000158992 rev 00

00067

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water

Service Request: R1005822
Date Analyzed: 10/21/10

**Lab Control Sample Summary
General Chemistry Parameters**

Units: mg/L
Basis: NA

Lab Control Sample RQ1009208-06					
Analyte Name	Method	Result	Spike Amount	% Rec	% Rec Limits
Chloride	9056A	1.95	2.00	97	80 - 120

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Printed 11/3/10 10:00

Form 3C

\\nflow2\Starlims\LimsReps\LabControlSample.rpt

SuperSet Reference: 10-0000158992 rev 00

00068

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water

Service Request: R1005822
Date Analyzed: 10/20/10

Lab Control Sample Summary
General Chemistry Parameters

Units: mg/L
Basis: NA

Lab Control Sample RQ1009190-04					
Analyte Name	Method	Result	Spike Amount	% Rec	% Rec Limits
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	0.391	0.40	98	77 - 129

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Printed 11/3/10 10:00

Form 3C

\\Inflow2\Starlims\LimsReps\LabControlSample.rpt

SuperSet Reference: 10-0000158992 rev 00

00069

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water

Service Request: R1005822
Date Analyzed: 10/20/10

Lab Control Sample Summary
General Chemistry Parameters

Units: mg/L
Basis: NA

Lab Control Sample RQ1009153-04					
Analyte Name	Method	Result	Spike Amount	% Rec	% Rec Limits
Nitrite as Nitrogen	353.2	0.235	0.250	94	90 - 110

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water

Service Request: R1005822
Date Analyzed: 10/22/10

Lab Control Sample Summary
General Chemistry Parameters

Units: mg/L
Basis: NA

Lab Control Sample RQ1009239-02					
Analyte Name	Method	Result	Spike Amount	% Rec	% Rec Limits
Sulfide, Acid-Soluble	9034	6.89	11.7	59	51 - 105

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water

Service Request: R1005822
Date Analyzed: 10/26/10

Lab Control Sample Summary
Inorganic Parameters

Units: µg/L
Basis: NA

Lab Control Sample RQ1009142-02					
Analyte Name	Method	Result	Spike Amount	% Rec	% Rec Limits
Iron, Total	6010C	1050	1000	105	80 - 120

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water

Service Request: R1005822
Date Analyzed: 10/23/10

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
Basis: NA

Analysis Lot: 221950

Lab Control Sample
RQ1009293-07

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
Acetone	20.0	20.0	100	59 - 140
Benzene	17.6	20.0	88	78 - 121
Bromodichloromethane	20.2	20.0	101	80 - 125
Bromoform	20.7	20.0	103	73 - 132
Bromomethane	17.4	20.0	87	57 - 144
2-Butanone (MEK)	18.9	20.0	94	60 - 133
Carbon Disulfide	18.7	20.0	94	59 - 138
Carbon Tetrachloride	19.0	20.0	95	69 - 135
Chlorobenzene	18.2	20.0	91	80 - 121
Chloroethane	16.9	20.0	85	71 - 130
Chloroform	19.7	20.0	98	78 - 125
Chloromethane	19.5	20.0	97	62 - 133
Dibromochloromethane	20.8	20.0	104	78 - 133
1,1-Dichloroethane	19.3	20.0	96	76 - 122
1,2-Dichloroethane	20.0	20.0	100	78 - 126
1,1-Dichloroethene	17.9	20.0	90	72 - 129
cis-1,2-Dichloroethene	18.4	20.0	92	78 - 122
trans-1,2-Dichloroethene	18.0	20.0	90	75 - 121
1,2-Dichloropropane	19.6	20.0	98	80 - 123
cis-1,3-Dichloropropene	18.3	20.0	91	77 - 125
trans-1,3-Dichloropropene	18.7	20.0	93	69 - 127
Ethylbenzene	18.0	20.0	90	78 - 123
2-Hexanone	18.4	20.0	92	61 - 131
Methylene Chloride	17.8	20.0	89	75 - 125
4-Methyl-2-pentanone (MIBK)	19.6	20.0	98	61 - 132
Styrene	17.5	20.0	88	80 - 132
1,1,2,2-Tetrachloroethane	17.9	20.0	90	72 - 131
Tetrachloroethene	18.0	20.0	90	72 - 131
Toluene	18.0	20.0	90	78 - 122
1,1,1-Trichloroethane	18.1	20.0	90	72 - 128
1,1,2-Trichloroethane	19.3	20.0	96	80 - 122
Trichloroethene	19.6	20.0	98	74 - 127

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water

Service Request: R1005822
Date Analyzed: 10/23/10

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L
Basis: NA

Analysis Lot: 221950

Lab Control Sample
RQ1009293-07

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
Vinyl Chloride	19.8	20.0	99	71 - 136
o-Xylene	17.7	20.0	89	79 - 126
m,p-Xylenes	34.8	40.0	87	79 - 126

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/70665-001
 Sample Matrix: Water

Service Request: R1005822
 Date Analyzed: 10/25/10

Lab Control Sample Summary
 Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L

Basis: NA

Analysis Lot: 222193

Lab Control Sample
 RQ1009469-03

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
Acetone	17.2	20.0	86	59 - 140
Benzene	19.9	20.0	99	78 - 121
Bromodichloromethane	21.7	20.0	109	80 - 125
Bromoform	20.9	20.0	105	73 - 132
Bromomethane	19.0	20.0	95	57 - 144
2-Butanone (MEK)	16.6	20.0	83	60 - 133
Carbon Disulfide	18.3	20.0	91	59 - 138
Carbon Tetrachloride	23.7	20.0	119	69 - 135
Chlorobenzene	20.8	20.0	104	80 - 121
Chloroethane	19.4	20.0	97	71 - 130
Chloroform	21.5	20.0	107	78 - 125
Chloromethane	21.6	20.0	108	62 - 133
Dibromochloromethane	21.7	20.0	108	78 - 133
1,1-Dichloroethane	21.1	20.0	106	76 - 122
1,2-Dichloroethane	20.0	20.0	100	78 - 126
1,1-Dichloroethene	20.7	20.0	104	72 - 129
cis-1,2-Dichloroethene	20.8	20.0	104	78 - 122
trans-1,2-Dichloroethene	20.7	20.0	103	75 - 121
1,2-Dichloropropane	21.2	20.0	106	80 - 123
cis-1,3-Dichloropropene	20.2	20.0	101	77 - 125
trans-1,3-Dichloropropene	20.2	20.0	101	69 - 127
Ethylbenzene	20.6	20.0	103	78 - 123
2-Hexanone	16.2	20.0	81	61 - 131
Methylene Chloride	19.8	20.0	99	75 - 125
4-Methyl-2-pentanone (MIBK)	17.3	20.0	86	61 - 132
Styrene	19.7	20.0	99	80 - 132
1,1,2,2-Tetrachloroethane	19.7	20.0	99	72 - 131
Tetrachloroethene	21.3	20.0	107	72 - 131
Toluene	20.7	20.0	104	78 - 122
1,1,1-Trichloroethane	21.2	20.0	106	72 - 128
1,1,2-Trichloroethane	19.8	20.0	99	80 - 122
Trichloroethene	20.2	20.0	101	74 - 127

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water

Service Request: R1005822
Date Analyzed: 10/25/10

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Analytical Method: 8260C

Units: µg/L

Basis: NA

Analysis Lot: 222193

Lab Control Sample
RQ1009469-03

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
Vinyl Chloride	22.8	20.0	114	71 - 136
o-Xylene	20.7	20.0	103	79 - 126
m,p-Xylenes	40.5	40.0	101	79 - 126

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water

Service Request: R1005822

Date Analyzed: 10/26/10

Lab Control Sample Summary
Dissolved Gases by GC/FID

Analytical Method: RSK 175

Units: µg/L

Basis: NA

Analysis Lot: 222451

Analyte Name	Lab Control Sample RQ1009365-02			Duplicate Lab Control Sample RQ1009365-03			% Rec Limits	RPD	RPD Limit
	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Ethane	32.8	26.1	126	31.0	26.1	119	55 - 165	6	30
Ethylene	30.3	24.3	124	28.9	24.3	119	48 - 163	4	30
Methane	32.8	26.2	125	31.1	26.2	118	61 - 154	5	30
Propane	32.6	25.4	128	30.7	25.4	121	26 - 186	6	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Haley & Aldrich, Incorporated
 Project: Coopervision/70665-001
 Sample Matrix: Water

Service Request: R1005822
 Date Analyzed: 10/26/10

Lab Control Sample Summary
Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC)

Analytical Method: Organic Acids

Units: mg/L

Basis: NA

Analysis Lot: 222370

Analyte Name	Lab Control Sample RQ1009358-02			Duplicate Lab Control Sample RQ1009358-03			% Rec Limits	RPD	RPD Limit
	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Pyruvic Acid	1.03	1.01	102	0.960	1.01	95	70 - 130	7	30
Acetic Acid	8.94	10.0	89	8.87	10.0	89	70 - 135	<1	30
Butyric Acid	9.45	10.0	94	9.58	10.0	96	82 - 118	1	30
Lactic Acid	8.34	10.1	83	8.36	10.1	83	70 - 117	<1	30
Propionic Acid	9.71	10.1	96	9.65	10.1	96	80 - 125	<1	30

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.



Columbia
Analytical Services

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

1 Mustard Street, Suite 250, Rochester, NY 14609 | 585.288.5380 | 800.695.7222 | 585.288.8475 (fax) PAGE / OF /

SR #

CAS Contact

Project Name COOPERVISION Groundwater Sample		Project Number 70665-018		ANALYSIS REQUESTED (Include Method Number and Container Preservative)																									
Project Manager M. RAMSDELL		Report CC		PRESERVATIVE		NUMBER OF CONTAINERS		GC/MS VOAs		GC/MS SVOAs		PESTICIDES		PCBs		METALS, TOTAL		METALS, DISSOLVED		METHANE ETHANE		NITRATE, NITRITE, NITROGEN		FERROUS, TOTAL IRON		METABOLIC ACIDS		PRESERVATIVE KEY	
Company/Address HALEY & ALDRICH OF NY		Phone # 585-321-4262		FAX # 585-486-8262		SAMPLING DATE		SAMPLING TIME		MATRIX		FOR OFFICE USE ONLY		LAB ID		CLIENT SAMPLE ID		SAMPLER'S SIGNATURE DAVID M. NOSTRANT		SAMPLER'S PRINTED NAME DAVID M. NOSTRANT		REMARKS/ALTERNATE DESCRIPTION		PRESERVATIVE KEY					
TRIP BLANK		-001		10/18/10		1115		AQ		3		X																0. NONE 1. HCL 2. HNO3 3. H2SO4 4. NaOH 5. Zn Acetate 6. MeOH 7. NaHSO4 8. Other	
OW-302S		-002		10/19/10		1115		AQ		10		X																	
MW-501		-003		10/18/10		1330		AQ		10		X																	
MW-205		-004		10/18/10		1515		AQ		13		X																	
MW-502		-005		10/18/10		1700		AQ		10		X																	
MW-306		-006		10/19/10		0920		AQ		3		X																	
MW-203		-007		10/19/10		1105		AQ		3		X																	
MW-3		-008		10/19/10		1245		AQ		10		X																	
MW-204		-009		10/19/10		1345		AQ		3		X																	
MW-202		-010		10/19/10		1530		AQ		3		X																	

See OAPP ☐

SPECIAL INSTRUCTIONS/COMMENTS
Metals

TURNAROUND REQUIREMENTS
RUSH (SURCHARGES APPLY)
24 hr 48 hr 5 day
STANDARD
REQUESTED FAX DATE
REQUESTED REPORT DATE

REPORT REQUIREMENTS
I. Results Only
II. Results + QC Summaries (LCS, DUP, MSMSD as required)
III. Results + QC and Calibration Summaries
IV. Data Validation Report with Raw Data
V. Specialized Forms / Customer Edata Yes

INVOICE INFORMATION
PO#
BILL TO:

R1005822
Haley & Aldrich, Inc.
Cooperation

RELINQUISHED BY
Signature
Printed Name
Firm
Date/Time

RECEIVED BY
Signature
Printed Name
Firm
Date/Time

CUSTODY SEALS: Y (N)

SAMPLE RECEIPT: CONDITION/COOLER TEMP: 20°C

RELINQUISHED BY
Signature
Printed Name
Firm
Date/Time

RECEIVED BY
Signature
Printed Name
Firm
Date/Time

Distribution: White - Return to Originator; Yellow - Lab Copy

Cooler Receipt And Preservation Check Form

Project/Client H&A Submission Number R-5822

Cooler received on 10/20/10 by: ALT COURIER: CAS UPS FEDEX VELOCITY CLIENT

- Were custody seals on outside of cooler? YES NO
- Were custody papers properly filled out (ink, signed, etc.)? YES NO
- Did all bottles arrive in good condition (unbroken)? YES NO
- Did any VOA vials have significant* air bubbles? YES NO N/A
- Were Ice or Ice packs present? YES NO
- Where did the bottles originate? CAS/ROC CLIENT
- Temperature of cooler(s) upon receipt: 2°

Is the temperature within 0° - 6° C?: Yes Yes Yes Yes Yes

If No, Explain Below No No No No No

Date/Time Temperatures Taken: 10/20/10 0847

Thermometer ID: IR GUN#3 / IR GUN#4 Reading From: Temp Blank / Sample Bottle

If out of Temperature, note packing/ice condition, Client Approval to Run Samples:

PC Secondary Review: 10/20/10

Cooler Breakdown: Date: 10/20/10 Time: 1555 by: DL

- Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
 - Did all bottle labels and tags agree with custody papers? YES NO
 - Were correct containers used for the tests indicated? YES NO
 - Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated N/A
- Explain any discrepancies:

pH	Reagent	YES	NO	Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH	
≥12	NaOH									Yes = All samples OK
≤2	HNO ₃	✓	✓	BDB26105C	9/11	MW-265, MW-52	1mL	BDB26105C	≤2	No = Samples were preserved at lab as listed
≤2	H ₂ SO ₄									
Residual Chlorine (-)	For TCN and Phenol			If present, contact PM to add ascorbic acid						
	Na ₂ S ₂ O ₃	-	-			*Not to be tested before analysis – pH tested and recorded by VOAs or GenChem on a separate worksheet				PM OK to Adjust:
	Zn Aceta	-	-	WCA2239C	7/11					
	HCl	*	*	4116020	9/11					

Bottle lot numbers: 070510-2AA, 0-165-002, 062910-27

Other Comments:

PC Secondary Review: 10/23/10

H:\SMODOCS\Cooler Receipt 2.doc

*significant air bubbles are greater than 5-6 mm

00080

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water

Service Request: R1005822
Date Collected: 10/19/10 1530
Date Received: 10/20/10
Date Analyzed: 10/25/10 20:10

Sample Name: MW-202
Lab Code: R1005822-010

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: U3021.D

Analysis Lot: 222193
Instrument Name: R-MS-12
Dilution Factor: 10

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
67-64-1	Acetone	16	U	200	16	
71-43-2	Benzene	3.1	U	50	3.1	
75-27-4	Bromodichloromethane	4.1	U	50	4.1	
75-25-2	Bromoform	3.0	U	50	3.0	
74-83-9	Bromomethane	4.0	U	50	4.0	
78-93-3	2-Butanone (MEK)	10	U	100	10	
75-15-0	Carbon Disulfide	3.5	U	100	3.5	
56-23-5	Carbon Tetrachloride	3.6	U	50	3.6	
108-90-7	Chlorobenzene	2.6	U	50	2.6	
75-00-3	Chloroethane	2.5	U	50	2.5	
67-66-3	Chloroform	2.0	U	50	2.0	
74-87-3	Chloromethane	4.7	U	50	4.7	
124-48-1	Dibromochloromethane	2.0	U	50	2.0	
75-34-3	1,1-Dichloroethane	1.3	U	50	1.3	
107-06-2	1,2-Dichloroethane	1.5	U	50	1.5	
75-35-4	1,1-Dichloroethene	3.7	U	50	3.7	
156-59-2	cis-1,2-Dichloroethene	2.2	U	50	2.2	
156-60-5	trans-1,2-Dichloroethene	1.6	U	50	1.6	
78-87-5	1,2-Dichloropropane	6.7	U	50	6.7	
10061-01-5	cis-1,3-Dichloropropene	1.8	U	50	1.8	
10061-02-6	trans-1,3-Dichloropropene	1.8	U	50	1.8	
100-41-4	Ethylbenzene	4.2	U	50	4.2	
591-78-6	2-Hexanone	4.0	U	100	4.0	
75-09-2	Methylene Chloride	2.7	U	50	2.7	
108-10-1	4-Methyl-2-pentanone (MIBK)	3.5	U	100	3.5	
100-42-5	Styrene	3.5	U	50	3.5	
79-34-5	1,1,2,2-Tetrachloroethane	2.0	U	50	2.0	
127-18-4	Tetrachloroethene	4.2	U	50	4.2	
108-88-3	Toluene	2.1	U	50	2.1	
71-55-6	1,1,1-Trichloroethane	1.6	U	50	1.6	
79-00-5	1,1,2-Trichloroethane	2.9	U	50	2.9	
79-01-6	Trichloroethene	1.9	U	50	1.9	
75-01-4	Vinyl Chloride	2.9	U	50	2.9	
95-47-6	o-Xylene	4.0	U	50	4.0	
179601-23-1	m,p-Xylenes	8.2	U	50	8.2	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Haley & Aldrich, Incorporated
Project: Coopervision/70665-001
Sample Matrix: Water

Service Request: R1005822
Date Collected: 10/19/10 1530
Date Received: 10/20/10
Date Analyzed: 10/25/10 20:10

Sample Name: MW-202
Lab Code: R1005822-010

Units: µg/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analytical Method: 8260C
Data File Name: U3021.D

Analysis Lot: 222193
Instrument Name: R-MS-12
Dilution Factor: 10

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
Surrogate Name	%Rec	Control Limits	Date Analyzed	Q		
4-Bromofluorobenzene	104	85-122	10/25/10 20:10			
Toluene-d8	105	87-121	10/25/10 20:10			
Dibromofluoromethane	108	89-119	10/25/10 20:10			

APPENDIX B

Mann-Kendall Analysis Results

Mann-Kendall Analysis: Results
CooperVision, Inc.
Scottsville, New York
VCA V00157-8

	2002-2010	
	Spring	Fall
Source Area		
MW-205		
1,1,1-TCA	No Trend	No Trend
1,1-DCA	No Trend	No Trend
1,1-DCE	N/A	N/A
Mid-Gradient Area		
MW-3		
1,1,1-TCA	Decreasing	Decreasing
1,1-DCA	Decreasing	Decreasing
1,1-DCE	Decreasing	Decreasing
MW-501		
1,1,1-TCA	Decreasing	Decreasing
1,1-DCA	Decreasing	Decreasing
1,1-DCE	No Trend	Decreasing
MW-502		
1,1,1-TCA	No Trend	No Trend
1,1-DCA	No Trend	No Trend
1,1-DCE	No Trend	No Trend
Down-Gradient Area		
MW-202		
1,1,1-TCA	No Trend	No Trend
1,1-DCA	Increasing	No Trend
1,1-DCE	No Trend	No Trend
MW-204		
1,1,1-TCA	No Trend	No Trend
1,1-DCA	No Trend	No Trend
1,1-DCE	No Trend	No Trend

Notes:

1. This analysis uses the Mann-Kendall test for trend. The test indicates whether or not a set of data is increasing or decreasing at a 95% degree of confidence.
2. A result of "No Trend" is an indication that the data set is not increasing or decreasing significantly at the degree of confidence evaluated, or that the data does not fit the statistical model. It may indicate a stable trend, or it may indicate that the data is not sufficient to establish trend.

References:

1. EPA Practical Methods for Data Analysis, EPA QA/G-9 QA00 UPDATE, July 2000.

Mann-Kendall Analysis: Data Entry
 CooperVision, Inc.
 Scottsville, New York
 VCA V00157-8

1,1,1-Trichloroethane													
Date	MW-205	MW-3	MW-501	MW-502	MW-202	MW-204	Date	MW-205	MW-3	MW-501	MW-502	MW-202	MW-204
Spring 2002	300	8.5	0.125 U	0.0125 U	0.0025 U	0.01	Fall 2002	260	3.4	0.025 U	0.0065 U	0.0025 U	0.011
Spring 2003	320	0.125 U	0.125 U	0.25 U	0.0025 U	0.0025 U	Fall 2003	250	0.23	0.0125 U	0.25 U	0.0025 U	0.006
Spring 2004	140	0.9	0.0125 U	0.0125 U	0.0025 U	0.006	Fall 2004	100	0.42	0.0125 U	0.25 U	0.0025 U	0.0025 U
Spring 2005	76	0.23	0.0125 U	0.125 U	0.0025 U	0.0025 U	Fall 2005	80	0.17	0.0125 U	0.25 U	0.0025 U	0.0025 U
Spring 2006	57	0.05 U	0.025 U	0.025 U	0.0025 U	0.0025 U	Fall 2006	62	0.05 U	0.005 U	0.0025 U	0.0025 U	0.097
Spring 2007	41	0.14	0.005 U	0.125 U	0.0025 U	0.03	Fall 2007	84	0.05 U	0.0125 U	0.125 U	0.0025 U	0.0025 U
Spring 2008	42	0.05 U	0.0125 U	0.125 U	0.0025 U	0.0025 U	Fall 2008	57	0.05 U	0.0065 U	0.125 U	0.0025 U	0.0025 U
Spring 2009	48	0.05 U	0.0125 U	0.125 U	0.0025 U	0.0025 U	Fall 2009	99	0.05 U	0.0065 U	0.125 U	0.0025 U	0.0025 U
Spring 2010	140	0.025 U	0.0065 U	0.125 U	0.0025 U	0.0025 U	Fall 2010	160	0.025 U	0.0065 U	0.25 U	0.0025 U	0.0063
Spring 2011							Fall 2011						
Spring 2012							Fall 2012						
Spring 2013							Fall 2013						
Spring 2014							Fall 2014						
Spring 2015							Fall 2015						
Spring 2016							Fall 2016						
Spring 2017							Fall 2017						
Spring 2018							Fall 2018						
Spring 2019							Fall 2019						
Spring 2020							Fall 2020						

Mann-Kendall Analysis: Data Entry
CooperVision, Inc.
Scottsville, New York
VCA V00157-8

1,1-Dichloroethane													
Date	MW-205	MW-3	MW-501	MW-502	MW-202	MW-204	Date	MW-205	MW-3	MW-501	MW-502	MW-202	MW-204
Spring 2002	290	2.4	9.9	0.82	0.0025 U	0.01	Fall 2002	260	3.9	2.2	11	0.0025 U	0.01
Spring 2003	290	8.4	7	13	0.0025 U	0.006	Fall 2003	210	0.56	0.4	1.5	0.0025 U	0.008
Spring 2004	200	1	0.56	0.52	0.0025 U	0.006	Fall 2004	230	3.1	0.6	0.25 U	0.0025 U	0.0025 U
Spring 2005	240	0.68	0.79	6.8	0.0025 U	0.0068	Fall 2005	230	1	0.49	0.25 U	0.0025 U	0.0053
Spring 2006	220	0.34	0.48	0.025 U	0.0025 U	0.0025 U	Fall 2006	270	0.51	0.29	0.016	0.0025 U	0.18
Spring 2007	230	0.93	0.31	0.054	0.0025 U	0.074	Fall 2007	390	0.22	0.24	0.125 U	0.0064	0.007
Spring 2008	200	0.36	0.15	0.125 U	0.0053	0.0056	Fall 2008	200	0.36	0.09	0.125 U	0.0025 U	0.006
Spring 2009	200	0.38	0.17	0.125 U	0.0093	0.0056	Fall 2009	200	0.21	0.11	0.125 U	0.011	0.0063
Spring 2010	230	0.1	0.088	0.125 U	0.013	0.0055	Fall 2010	220	0.16	0.089	0.25 U	0.0025 U	0.013
Spring 2011							Fall 2011						
Spring 2012							Fall 2012						
Spring 2013							Fall 2013						
Spring 2014							Fall 2014						
Spring 2015							Fall 2015						
Spring 2016							Fall 2016						
Spring 2017							Fall 2017						
Spring 2018							Fall 2018						
Spring 2019							Fall 2019						
Spring 2020							Fall 2020						

Mann-Kendall Analysis: Data Entry
 CooperVision, Inc.
 Scottsville, New York
 VCA V00157-8

1,1-Dichloroethene													
Date	MW-205	MW-3	MW-501	MW-502	MW-202	MW-204	Date	MW-205	MW-3	MW-501	MW-502	MW-202	MW-204
Spring 2002	--	2	0.0125 U	0.0125 U	0.0025 U	0.007	Fall 2002	--	1.4	0.025 U	0.014	0.0025 U	0.008
Spring 2003	--	1.2	0.125 U	0.25 U	0.0025 U	0.005	Fall 2003	--	0.57	0.0125 U	0.25 U	0.0025 U	0.005
Spring 2004	--	0.33	0.0125 U	0.14 U	0.0025 U	0.006	Fall 2004	--	0.36	0.0125 U	0.25 U	0.0025 U	0.0025 U
Spring 2005	--	0.099	0.0125 U	0.125 U	0.0025 U	0.0025 U	Fall 2005	--	0.1	0.0125 U	0.25 U	0.0025 U	0.0025 U
Spring 2006	--	0.05 U	0.025 U	0.025 U	0.0025 U	0.0025 U	Fall 2006	--	0.05 U	0.005 U	0.0025 U	0.0025 U	0.009
Spring 2007	--	0.05 U	0.005 U	0.125 U	0.0025 U	0.0025 U	Fall 2007	--	0.05 U	0.0125 U	0.125 U	0.0056	0.0067
Spring 2008	--	0.05 U	0.0125 U	0.125 U	0.0025 U	0.0025 U	Fall 2008	--	0.05 U	0.0065 U	0.125 U	0.0025 U	0.0025 U
Spring 2009	--	0.05 U	0.0125 U	0.125 U	0.005	0.0025 U	Fall 2009	--	0.05 U	0.0065 U	0.125 U	0.0078	0.0067
Spring 2010	--	0.025 U	0.0065 U	0.125 U	0.0085	0.0053	Fall 2010	--	0.025 U	0.0065 U	0.25 U	0.0025 U	0.013
Spring 2011	--						Fall 2011	--					
Spring 2012	--						Fall 2012	--					
Spring 2013	--						Fall 2013	--					
Spring 2014	--						Fall 2014	--					
Spring 2015	--						Fall 2015	--					
Spring 2016	--						Fall 2016	--					
Spring 2017	--						Fall 2017	--					
Spring 2018	--						Fall 2018	--					
Spring 2019	--						Fall 2019	--					
Spring 2020	--						Fall 2020	--					

Mann-Kendall Analysis: 1,1,1-TCA (2002-2011)
CooperVision, Inc.
Scottsville, New York
VCA V00157-8

Degree of Confidence (Alpha): 0.05

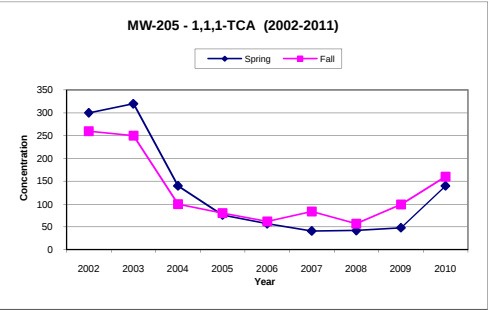
MW-205

S Value	
Neg	Pos
26	9
S Value	-17
n	9
P Value	0.06
Evaluation	No Trend

Mann-Kendall Trend: Spring									
Year	2002	2003	2004	2005	2006	2007	2008	2009	2010
Data	300	320	140	76	57	41	42	48	140
300		20	-160	-224	-243	-259	-258	-252	-160
320			-180	-244	-263	-279	-278	-272	-180
140				-64	-83	-99	-98	-92	0
76					-19	-35	-34	-28	64
57						-16	-15	-9	83
41							1	7	99
42								6	98
48									92
140									

S Value	
Neg	Pos
24	12
S Value	-12
n	9
P Value	0.13
Evaluation	No Trend

Mann-Kendall Trend: Fall									
Year	2002	2003	2004	2005	2006	2007	2008	2009	2010
Data	260	250	100	80	62	84	57	99	160
260		-10	-160	-180	-198	-176	-203	-161	-100
250			-150	-170	-188	-166	-193	-151	-90
100				-20	-38	-16	-43	-1	60
80					-18	4	-23	19	80
62						22	-5	37	98
84							-27	15	76
57								42	103
99									61
160									



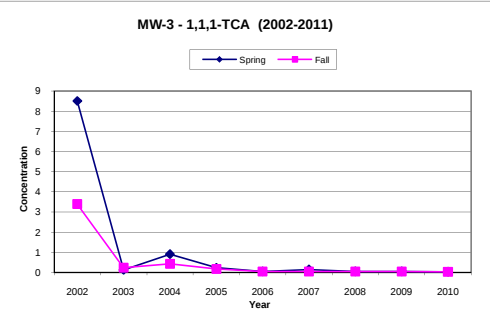
MW-3

S Value	
Neg	Pos
29	4
S Value	-25
n	9
P Value	0.0063
Evaluation	Decreasing

Mann-Kendall Trend: Spring									
Year	2002	2003	2004	2005	2006	2007	2008	2009	2010
Data	8.5	0.125	0.9	0.23	0.05	0.14	0.05	0.05	0.025
8.5		-8.375	-7.6	-8.27	-8.45	-8.36	-8.45	-8.45	-8.475
0.125			0.775	0.105	-0.075	0.015	-0.075	-0.075	-0.1
0.9				-0.67	-0.85	-0.76	-0.85	-0.85	-0.875
0.23					-0.18	-0.09	-0.18	-0.18	-0.205
0.05						0.09	0	0	-0.025
0.14							-0.09	-0.09	-0.115
0.05								0	-0.025
0.05									-0.025
0.025									

S Value	
Neg	Pos
29	1
S Value	-28
n	9
P Value	0.0012
Evaluation	Decreasing

Mann-Kendall Trend: Fall									
Year	2002	2003	2004	2005	2006	2007	2008	2009	2010
Data	3.4	0.23	0.42	0.17	0.05	0.05	0.05	0.05	0.025
3.4		-3.17	-2.98	-3.23	-3.35	-3.35	-3.35	-3.35	-3.375
0.23			0.19	-0.06	-0.18	-0.18	-0.18	-0.18	-0.205
0.42				-0.25	-0.37	-0.37	-0.37	-0.37	-0.395
0.17					-0.12	-0.12	-0.12	-0.12	-0.145
0.05						0	0	0	-0.025
0.05							0	0	-0.025
0.05								0	-0.025
0.05									-0.025
0.025									



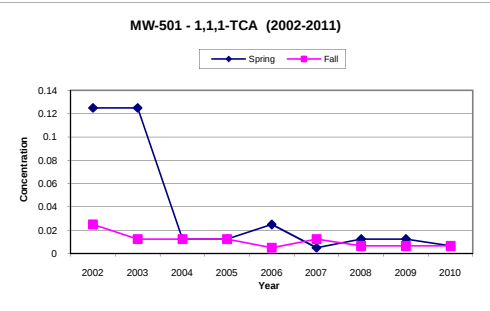
MW-501

S Value	
Neg	Pos
24	5
S Value	-19
n	9
P Value	0.038
Evaluation	Decreasing

Mann-Kendall Trend: Spring									
Year	2002	2003	2004	2005	2006	2007	2008	2009	2010
Data	0.125	0.125	0.0125	0.0125	0.025	0.005	0.0125	0.0125	0.0065
0.125		0	-0.1125	-0.1125	-0.1	-0.12	-0.1125	-0.1125	-0.1185
0.125			-0.1125	-0.1125	-0.1	-0.12	-0.1125	-0.1125	-0.1185
0.0125				0	0.0125	-0.0075	0	0	-0.006
0.0125					0.0125	-0.0075	0	0	-0.006
0.025						-0.02	-0.0125	-0.0125	-0.0185
0.005							0.0075	0.0075	0.0015
0.0125								0	-0.006
0.0125									-0.006
0.0065									

S Value	
Neg	Pos
23	4
S Value	-19
n	9
P Value	0.038
Evaluation	Decreasing

Mann-Kendall Trend: Fall									
Year	2002	2003	2004	2005	2006	2007	2008	2009	2010
Data	0.025	0.0125	0.0125	0.0125	0.005	0.0125	0.0065	0.0065	0.0065
0.025		-0.0125	-0.0125	-0.0125	-0.02	-0.0125	-0.0185	-0.0185	-0.0185
0.0125			0	0	-0.0075	0	-0.006	-0.006	-0.006
0.0125				0	-0.0075	0	-0.006	-0.006	-0.006
0.0125					-0.0075	0	-0.006	-0.006	-0.006
0.005						0.0075	0.0015	0.0015	0.0015
0.0125							-0.006	-0.006	-0.006
0.0065								0	0
0.0065									0
0.0065									



Mann-Kendall Analysis: 1,1,1-TCA (2002-2011)
CooperVision, Inc.
Scottsville, New York
VCA V00157-8

Degree of Confidence (Alpha): 0.05

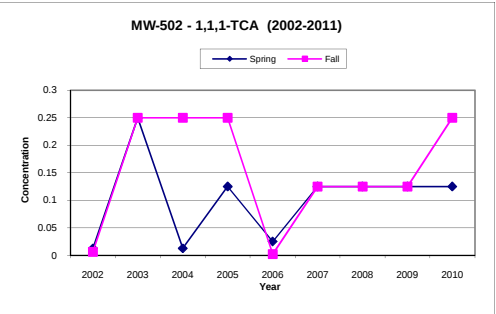
MW-502

S Value	
Neg	Pos
8	17
S Value	9
n	9
P Value	0.238
Evaluation	No Trend

Mann-Kendall Trend: Spring									
Year	2002	2003	2004	2005	2006	2007	2008	2009	2010
Data	0.0125	0.25	0.0125	0.125	0.025	0.125	0.125	0.125	0.125
0.0125		0.2375	0	0.1125	0.0125	0.1125	0.1125	0.1125	0.1125
0.25			-0.2375	-0.125	-0.225	-0.125	-0.125	-0.125	-0.125
0.0125				0.1125	0.0125	0.1125	0.1125	0.1125	0.1125
0.125					-0.1	0	0	0	0
0.025						0.1	0.1	0.1	0.1
0.125							0	0	0
0.125								0	0
0.125									0
0.125									0

S Value	
Neg	Pos
13	14
S Value	1
n	9
P Value	0.54
Evaluation	No Trend

Mann-Kendall Trend: Fall									
Year	2002	2003	2004	2005	2006	2007	2008	2009	2010
Data	0.0065	0.25	0.25	0.25	0.0025	0.125	0.125	0.125	0.25
0.0065		0.2435	0.2435	0.2435	-0.004	0.1185	0.1185	0.1185	0.2435
0.25			0	0	-0.2475	-0.125	-0.125	-0.125	0
0.25				0	-0.2475	-0.125	-0.125	-0.125	0
0.25					-0.2475	-0.125	-0.125	-0.125	0
0.0025						0.1225	0.1225	0.1225	0.2475
0.125							0	0	0.125
0.125								0	0.125
0.125									0.125
0.25									0.125



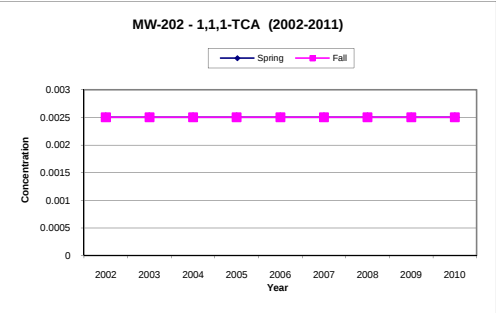
MW-202

S Value	
Neg	Pos
0	0
S Value	0
n	9
P Value	0.54
Evaluation	No Trend

Mann-Kendall Trend: Spring									
Year	2002	2003	2004	2005	2006	2007	2008	2009	2010
Data	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025
0.0025		0	0	0	0	0	0	0	0
0.0025			0	0	0	0	0	0	0
0.0025				0	0	0	0	0	0
0.0025					0	0	0	0	0
0.0025						0	0	0	0
0.0025							0	0	0
0.0025								0	0
0.0025									0
0.0025									0

S Value	
Neg	Pos
0	0
S Value	0
n	9
P Value	0.54
Evaluation	No Trend

Mann-Kendall Trend: Fall									
Year	2002	2003	2004	2005	2006	2007	2008	2009	2010
Data	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025
0.0025		0	0	0	0	0	0	0	0
0.0025			0	0	0	0	0	0	0
0.0025				0	0	0	0	0	0
0.0025					0	0	0	0	0
0.0025						0	0	0	0
0.0025							0	0	0
0.0025								0	0
0.0025									0
0.0025									0



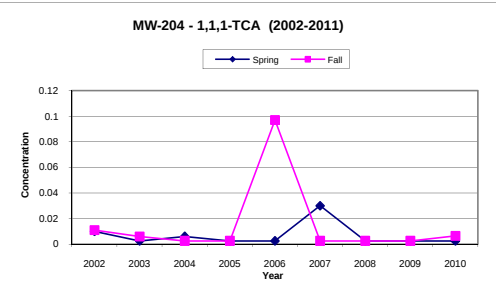
MW-204

S Value	
Neg	Pos
15	6
S Value	-9
n	9
P Value	0.238
Evaluation	No Trend

Mann-Kendall Trend: Spring									
Year	2002	2003	2004	2005	2006	2007	2008	2009	2010
Data	0.01	0.0025	0.006	0.0025	0.0025	0.03	0.0025	0.0025	0.0025
0.01		-0.0075	-0.004	-0.0075	-0.0075	0.02	-0.0075	-0.0075	-0.0075
0.0025			0.0035	0	0	0.0275	0	0	0
0.006				-0.0035	-0.0035	0.024	-0.0035	-0.0035	-0.0035
0.0025					0	0.0275	0	0	0
0.0025						0.0275	0	0	0
0.03							-0.0275	-0.0275	-0.0275
0.0025								0	0
0.0025									0
0.0025									0

S Value	
Neg	Pos
16	10
S Value	-6
n	9
P Value	0.306
Evaluation	No Trend

Mann-Kendall Trend: Fall									
Year	2002	2003	2004	2005	2006	2007	2008	2009	2010
Data	0.011	0.006	0.0025	0.0025	0.097	0.0025	0.0025	0.0025	0.0063
0.011		-0.005	-0.0085	-0.0085	0.086	-0.0085	-0.0085	-0.0085	-0.0047
0.006			-0.0035	-0.0035	0.091	-0.0035	-0.0035	-0.0035	0.0003
0.0025				0	0.0945	0	0	0	0.0038
0.0025					0.0945	0	0	0	0.0038
0.097						-0.0945	-0.0945	-0.0945	-0.0907
0.0025							0	0	0.0038
0.0025								0	0.0038
0.0025									0.0038
0.0063									0.0038



Mann-Kendall Analysis: 1,1-DCA (2002-2011)
CooperVision, Inc.
Scottsville, New York
VCA V00157-8

Degree of Confidence (Alpha): 0.05

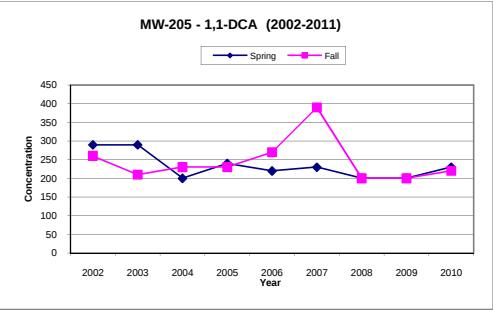
MW-205

S Value	
Neg	Pos
23	8
S Value	-15
n	9
P Value	0.09
Evaluation	No Trend

Mann-Kendall Trend: Spring									
Year	2002	2003	2004	2005	2006	2007	2008	2009	2010
Data	290	290	200	240	220	230	200	200	230
290		0	-90	-50	-70	-60	-90	-90	-60
290			-90	-50	-70	-60	-90	-90	-60
200				40	20	30	0	0	30
240					-20	-10	-40	-40	-10
220						10	-20	-20	10
230							-30	-30	0
200								0	30
200									30
230									

S Value	
Neg	Pos
20	14
S Value	-6
n	9
P Value	0.306
Evaluation	No Trend

Mann-Kendall Trend: Fall									
Year	2002	2003	2004	2005	2006	2007	2008	2009	2010
Data	260	210	230	230	270	390	200	200	220
260		-50	-30	-30	10	130	-60	-60	-40
210			20	20	60	180	-10	-10	10
230				0	40	160	-30	-30	-10
230					40	160	-30	-30	-10
270						120	-70	-70	-50
390							-190	-190	-170
200								0	20
200									20
220									



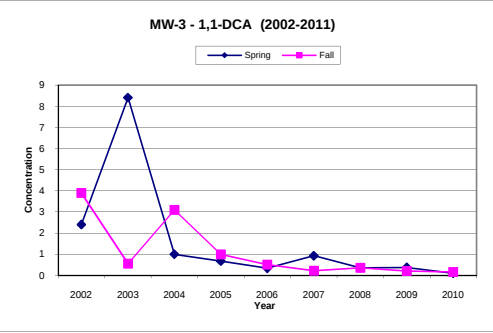
MW-3

S Value	
Neg	Pos
30	6
S Value	-24
n	9
P Value	0.0063
Evaluation	Decreasing

Mann-Kendall Trend: Spring									
Year	2002	2003	2004	2005	2006	2007	2008	2009	2010
Data	2.4	8.4	1	0.68	0.34	0.93	0.36	0.38	0.1
2.4		6	-1.4	-1.72	-2.06	-1.47	-2.04	-2.02	-2.3
8.4			-7.4	-7.72	-8.06	-7.47	-8.04	-8.02	-8.3
1				-0.32	-0.66	-0.07	-0.64	-0.62	-0.9
0.68					-0.34	0.25	-0.32	-0.3	-0.58
0.34						0.59	0.02	0.04	-0.24
0.93							-0.57	-0.55	-0.83
0.36								0.02	-0.26
0.38									-0.28
0.1									

S Value	
Neg	Pos
33	3
S Value	-30
n	9
P Value	0.00043
Evaluation	Decreasing

Mann-Kendall Trend: Fall									
Year	2002	2003	2004	2005	2006	2007	2008	2009	2010
Data	3.9	0.56	3.1	1	0.51	0.22	0.36	0.21	0.16
3.9		-3.34	-0.8	-2.9	-3.39	-3.68	-3.54	-3.69	-3.74
0.56			2.54	0.44	-0.05	-0.34	-0.2	-0.35	-0.4
3.1				-2.1	-2.59	-2.88	-2.74	-2.89	-2.94
1					-0.49	-0.78	-0.64	-0.79	-0.84
0.51						-0.29	-0.15	-0.3	-0.35
0.22							0.14	-0.01	-0.06
0.36								-0.15	-0.2
0.21									-0.05
0.16									



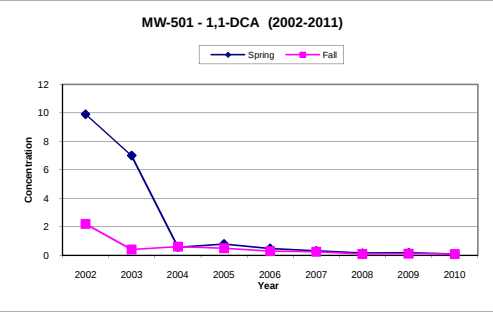
MW-501

S Value	
Neg	Pos
34	2
S Value	-32
n	9
P Value	0.00012
Evaluation	Decreasing

Mann-Kendall Trend: Spring									
Year	2002	2003	2004	2005	2006	2007	2008	2009	2010
Data	9.9	7	0.56	0.79	0.48	0.31	0.15	0.17	0.088
9.9		-2.9	-9.34	-9.11	-9.42	-9.59	-9.75	-9.73	-9.812
7			-6.44	-6.21	-6.52	-6.69	-6.85	-6.83	-6.912
0.56				0.23	-0.08	-0.25	-0.41	-0.39	-0.472
0.79					-0.31	-0.48	-0.64	-0.62	-0.702
0.48						-0.17	-0.33	-0.31	-0.392
0.31							-0.16	-0.14	-0.222
0.15								0.02	-0.062
0.17									-0.082
0.088									

S Value	
Neg	Pos
33	3
S Value	-30
n	9
P Value	0.00043
Evaluation	Decreasing

Mann-Kendall Trend: Fall									
Year	2002	2003	2004	2005	2006	2007	2008	2009	2010
Data	2.2	0.4	0.6	0.49	0.29	0.24	0.09	0.11	0.089
2.2		-1.8	-1.6	-1.71	-1.91	-1.96	-2.11	-2.09	-2.111
0.4			0.2	0.09	-0.11	-0.16	-0.31	-0.29	-0.311
0.6				-0.11	-0.31	-0.36	-0.51	-0.49	-0.511
0.49					-0.2	-0.25	-0.4	-0.38	-0.401
0.29						-0.05	-0.2	-0.18	-0.201
0.24							-0.15	-0.13	-0.151
0.09								0.02	-0.001
0.11									-0.021
0.089									



Mann-Kendall Analysis: 1,1-DCA (2002-2011)
CooperVision, Inc.
Scottsville, New York
VCA V00157-8

Degree of Confidence (Alpha): 0.05

MW-502

S Value	
Neg	Pos
23	10
S Value	-13
n	9
P Value	0.13
Evaluation	No Trend

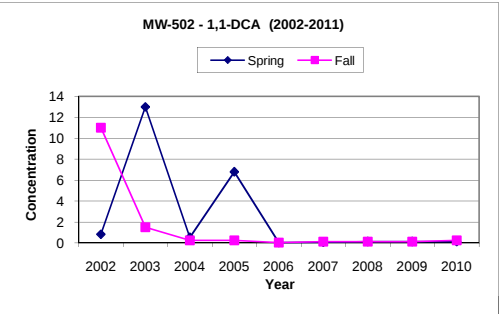
Mann-Kendall Trend: Spring

Year	2002	2003	2004	2005	2006	2007	2008	2009	2010
Data	0.82	13	0.52	6.8	0.025	0.054	0.125	0.125	0.125
	0.82	12.18	-0.3	5.98	-0.795	-0.766	-0.695	-0.695	-0.695
	13		-12.48	-6.2	-12.975	-12.946	-12.875	-12.875	-12.875
	0.52			6.28	-0.495	-0.466	-0.395	-0.395	-0.395
	6.8				-6.775	-6.746	-6.675	-6.675	-6.675
	0.025					0.029	0.1	0.1	0.1
	0.054						0.071	0.071	0.071
	0.125							0	0
	0.125								0
	0.125								

S Value	
Neg	Pos
23	7
S Value	-16
n	9
P Value	0.06
Evaluation	No Trend

Mann-Kendall Trend: Fall

Year	2002	2003	2004	2005	2006	2007	2008	2009	2010
Data	11	1.5	0.25	0.25	0.016	0.125	0.125	0.125	0.25
	11	-9.5	-10.75	-10.75	-10.984	-10.875	-10.875	-10.875	-10.75
	1.5		-1.25	-1.25	-1.484	-1.375	-1.375	-1.375	-1.25
	0.25			0	-0.234	-0.125	-0.125	-0.125	0
	0.25				-0.234	-0.125	-0.125	-0.125	0
	0.016					0.109	0.109	0.109	0.234
	0.125						0	0	0.125
	0.125							0	0.125
	0.125								0.125
	0.25								



MW-202

S Value	
Neg	Pos
0	21
S Value	21
n	9
P Value	0.002
Evaluation	Increasing

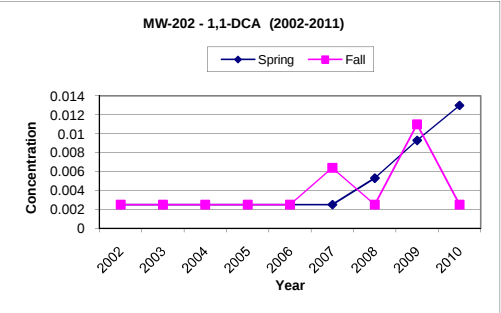
Mann-Kendall Trend: Spring

Year	2002	2003	2004	2005	2006	2007	2008	2009	2010
Data	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0053	0.0093	0.013
	0.0025	0	0	0	0	0	0.0028	0.0068	0.0105
	0.0025		0	0	0	0	0.0028	0.0068	0.0105
	0.0025			0	0	0	0.0028	0.0068	0.0105
	0.0025				0	0	0.0028	0.0068	0.0105
	0.0025					0	0.0028	0.0068	0.0105
	0.0025						0.0028	0.0068	0.0105
	0.0053							0.004	0.0077
	0.0093								0.0037
	0.013								

S Value	
Neg	Pos
3	12
S Value	9
n	9
P Value	0.238
Evaluation	No Trend

Mann-Kendall Trend: Fall

Year	2002	2003	2004	2005	2006	2007	2008	2009	2010
Data	0.0025	0.0025	0.0025	0.0025	0.0025	0.0064	0.0025	0.011	0.0025
	0.0025	0	0	0	0	0.0039	0	0.0085	0
	0.0025		0	0	0	0.0039	0	0.0085	0
	0.0025			0	0	0.0039	0	0.0085	0
	0.0025				0	0.0039	0	0.0085	0
	0.0025					0.0039	0	0.0085	0
	0.0064						-0.0039	0.0046	-0.0039
	0.0025							0.0085	0
	0.011								-0.0085
	0.0025								



MW-204

S Value	
Neg	Pos
24	10
S Value	-14
n	9
P Value	0.09
Evaluation	No Trend

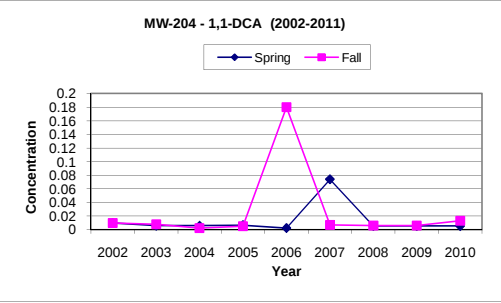
Mann-Kendall Trend: Spring

Year	2002	2003	2004	2005	2006	2007	2008	2009	2010
Data	0.01	0.006	0.006	0.0068	0.0025	0.074	0.0056	0.0056	0.0055
	0.01	-0.004	-0.004	-0.0032	-0.0075	0.064	-0.0044	-0.0044	-0.0045
	0.006		0	0.0008	-0.0035	0.068	-0.0004	-0.0004	-0.0005
	0.006			0.0008	-0.0035	0.068	-0.0004	-0.0004	-0.0005
	0.0068				-0.0043	0.0672	-0.0012	-0.0012	-0.0013
	0.0025					0.0715	0.0031	0.0031	0.003
	0.074						-0.0684	-0.0684	-0.0685
	0.0056							0	-0.0001
	0.0056								-0.0001
	0.0055								

S Value	
Neg	Pos
17	19
S Value	2
n	9
P Value	0.46
Evaluation	No Trend

Mann-Kendall Trend: Fall

Year	2002	2003	2004	2005	2006	2007	2008	2009	2010
Data	0.01	0.008	0.0025	0.0053	0.18	0.007	0.006	0.0063	0.013
	0.01	-0.002	-0.0075	-0.0047	0.17	-0.003	-0.004	-0.0037	0.003
	0.008		-0.0055	-0.0027	0.172	-0.001	-0.002	-0.0017	0.005
	0.0025			0.0028	0.1775	0.0045	0.0035	0.0038	0.0105
	0.0053				0.1747	0.0017	0.0007	0.001	0.0077
	0.18					-0.173	-0.174	-0.1737	-0.167
	0.007						-0.001	-0.0007	0.006
	0.006							0.0003	0.007
	0.0063								0.0067
	0.013								

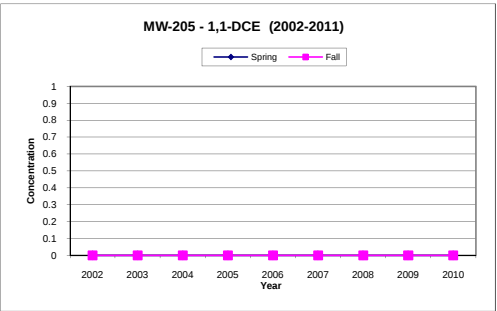


MW-205

Mann-Kendall Trend: Spring

S Value	
Neg	Pos
0	0
S Value	0
n	9
P Value	0.54
Evaluation	No Trend

Mann-Kendall Trend: Fall

[illegible]

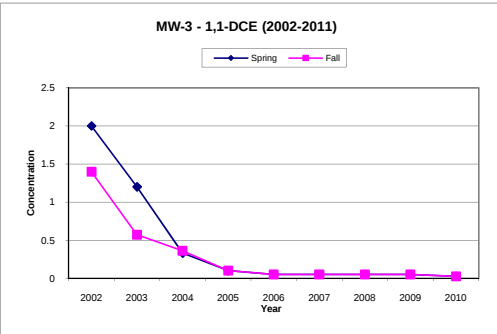
S Value	
Neg	Pos
30	0
S Value	-30
n	9
P Value	0.00043
Evaluation	Decreasing

Mann-Kendall Trend: Spring

[illegible]

S Value	
Neg	Pos
30	0
S Value	-30
n	9
P Value	0.00043
Evaluation	Decreasing

Mann-Kendall Trend: Fall

[illegible]

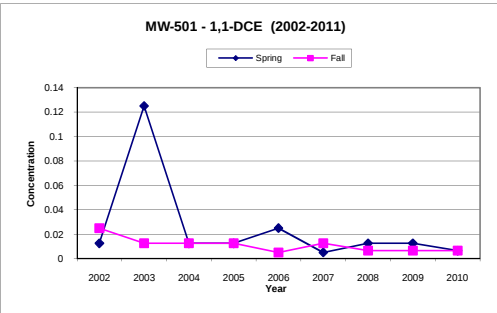
S Value	
Neg	Pos
19	7
S Value	-12
n	9
P Value	0.13
Evaluation	No Trend

Mann-Kendall Trend: Spring

[illegible]

S Value	
Neg	Pos
23	4
S Value	-19
n	9
P Value	0.038
Evaluation	Decreasing

Mann-Kendall Trend: Fall

[illegible]

Mann-Kendall Analysis: 1,1-DCE (2002-2011)
CooperVision, Inc.
Scottsville, New York
VCA V00157-8

Degree of Confidence (Alpha): 0.05

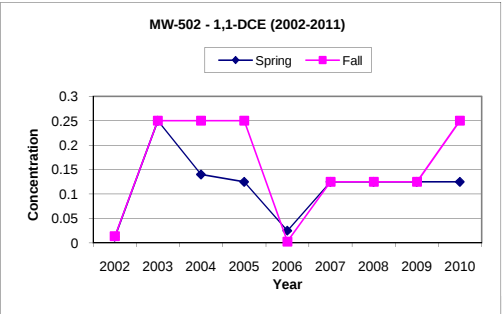
MW-502

S Value	
Neg	Pos
14	12
S Value	-2
n	9
P Value	0.46
Evaluation	No Trend

Mann-Kendall Trend: Spring									
Year	2002	2003	2004	2005	2006	2007	2008	2009	2010
Data	0.0125	0.25	0.14	0.125	0.025	0.125	0.125	0.125	0.125
0.0125		0.2375	0.1275	0.1125	0.0125	0.1125	0.1125	0.1125	0.1125
0.25			-0.11	-0.125	-0.225	-0.125	-0.125	-0.125	-0.125
0.14				-0.015	-0.115	-0.015	-0.015	-0.015	-0.015
0.125					-0.1	0	0	0	0
0.025						0.1	0.1	0.1	0.1
0.125							0	0	0
0.125								0	0
0.125									0
0.125									

S Value	
Neg	Pos
13	14
S Value	1
n	9
P Value	0.54
Evaluation	No Trend

Mann-Kendall Trend: Fall									
Year	2002	2003	2004	2005	2006	2007	2008	2009	2010
Data	0.014	0.25	0.25	0.25	0.0025	0.125	0.125	0.125	0.25
0.014		0.236	0.236	0.236	-0.0115	0.111	0.111	0.111	0.236
0.25			0	0	-0.2475	-0.125	-0.125	-0.125	0
0.25				0	-0.2475	-0.125	-0.125	-0.125	0
0.25					-0.2475	-0.125	-0.125	-0.125	0
0.0025						0.1225	0.1225	0.1225	0.2475
0.125							0	0	0.125
0.125								0	0.125
0.125									0.125
0.25									



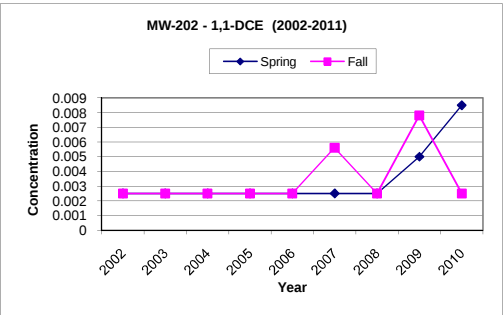
MW-202

S Value	
Neg	Pos
0	15
S Value	15
n	9
P Value	0.09
Evaluation	No Trend

Mann-Kendall Trend: Spring									
Year	2002	2003	2004	2005	2006	2007	2008	2009	2010
Data	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.005	0.0085
0.0025		0	0	0	0	0	0	0.0025	0.006
0.0025			0	0	0	0	0	0.0025	0.006
0.0025				0	0	0	0	0.0025	0.006
0.0025					0	0	0	0.0025	0.006
0.0025						0	0	0.0025	0.006
0.0025							0	0.0025	0.006
0.0025								0.0025	0.006
0.005									0.0035
0.0085									

S Value	
Neg	Pos
3	12
S Value	9
n	9
P Value	0.238
Evaluation	No Trend

Mann-Kendall Trend: Fall									
Year	2002	2003	2004	2005	2006	2007	2008	2009	2010
Data	0.0025	0.0025	0.0025	0.0025	0.0025	0.0056	0.0025	0.0078	0.0025
0.0025		0	0	0	0	0.0031	0	0.0053	0
0.0025			0	0	0	0.0031	0	0.0053	0
0.0025				0	0	0.0031	0	0.0053	0
0.0025					0	0.0031	0	0.0053	0
0.0025						0.0031	0	0.0053	0
0.0056							-0.0031	0.0022	-0.0031
0.0025								0.0053	0
0.0078									-0.0053
0.0025									



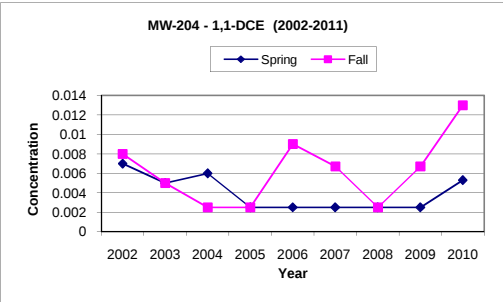
MW-204

S Value	
Neg	Pos
19	7
S Value	-12
n	9
P Value	0.13
Evaluation	No Trend

Mann-Kendall Trend: Spring									
Year	2002	2003	2004	2005	2006	2007	2008	2009	2010
Data	0.007	0.005	0.006	0.0025	0.0025	0.0025	0.0025	0.0025	0.0053
0.007		-0.002	-0.001	-0.0045	-0.0045	-0.0045	-0.0045	-0.0045	-0.0017
0.005			0.001	-0.0025	-0.0025	-0.0025	-0.0025	-0.0025	0.0003
0.006				-0.0035	-0.0035	-0.0035	-0.0035	-0.0035	-0.0007
0.0025					0	0	0	0	0.0028
0.0025						0	0	0	0.0028
0.0025							0	0	0.0028
0.0025								0	0.0028
0.0025									0.0028
0.0053									

S Value	
Neg	Pos
13	19
S Value	6
n	9
P Value	0.306
Evaluation	No Trend

Mann-Kendall Trend: Fall									
Year	2002	2003	2004	2005	2006	2007	2008	2009	2010
Data	0.008	0.005	0.0025	0.0025	0.009	0.0067	0.0025	0.0067	0.013
0.008		-0.003	-0.0055	-0.0055	0.001	-0.0013	-0.0055	-0.0013	0.005
0.005			-0.0025	-0.0025	0.004	0.0017	-0.0025	0.0017	0.008
0.0025				0	0.0065	0.0042	0	0.0042	0.0105
0.0025					0.0065	0.0042	0	0.0042	0.0105
0.009						-0.0023	-0.0065	-0.0023	0.004
0.0067							-0.0042	0	0.0063
0.0025								0.0042	0.0105
0.0067									0.0063
0.013									



APPENDIX C

NYSDEC Correspondence

New York State Department of Environmental Conservation

Office of General Counsel, 14th Floor

625 Broadway, Albany, New York, 12233-1500

Fax: (518) 402-9018 or (518) 402-9019

Website: www.dec.ny.gov



Peter Iwanowicz
Acting Commissioner

November 29, 2010

Christopher H. Marraro, Esq.
Howrey, LLP
1299 Pennsylvania Avenue, NW
Washington, D.C. 20004-2402

Re: Release and Covenant not to Sue
CooperVision, Inc. Site# V001175-8
Index# B8-0532-98-06

Dear Mr. Marraro:

Unless otherwise specified in this letter, all terms used in this letter shall have the meaning assigned to them under the terms of the Voluntary Agreement entered into between the New York State Department of Environmental Conservation (the "Department") and CooperVision, Inc. ("Volunteer"), Index No. B8-0532-98-06 (the "Agreement").

The Department is pleased to report that the Department is satisfied that the Agreement's Work Plan, covering the remediation of the Site, located at 711 North Road in the Village of Scottsville, New York 14546, as depicted in the attached Appendix "A", and is included on the Monroe County Tax Map as Parcel Nos. 187.17-1-18 (the "Northern Parcel") and 187.171-18.1/ex (the "Southern Parcel"), has been successfully implemented.

The Department, therefore, hereby releases, covenants not to sue, and shall forbear from bringing any action, proceeding, or suit against Volunteer and Volunteer's lessees and sublessees and Volunteer's successors and assigns and their respective secured creditors, for the further investigation and remediation of the Site based upon the release or threatened release of Covered Contamination, provided that (a) timely payments of the amounts specified in Paragraph VI of the Agreement continue to be or have been made to the Department, (b) appropriate notices and deed restrictions have been recorded in accordance with Paragraphs IX and X of the Agreement, and (c) Volunteer and/or Volunteer's lessees, sublessees, successors, or assigns promptly commence and diligently pursue to completion the Department-approved O&M Plan, if any. Nonetheless, the Department hereby reserves all of its rights concerning, and such release, covenant not to sue, and forbearance shall not extend to natural resource damages nor to any further investigation or remedial action the Department deems necessary:

- due to off-Site migration of contaminants other than petroleum resulting in impacts to environmental resources, to human health, or to other biota that are not inconsequential and to off-Site migration of petroleum, irrespective of whether the information available

to Volunteer and the Department at the time of the development of the Work Plan disclosed the existence or potential existence of such off-Site migration;

- due to environmental conditions related to the Site that were unknown to the Department at the time of its approval of the Work Plan which indicate that Site conditions are not sufficiently protective of human health and the environment for the Contemplated Use;
- due to information received, in whole or in part, after the Department's approval of the final engineering report, which indicates that the activities carried out in accordance with the Work Plan are not sufficiently protective of human health and the environment for the Contemplated Use;
- due to Volunteer's failure to implement the Agreement to the Department's satisfaction; or
- due to fraud committed, or mistake made, by Volunteer in demonstrating that the Site-specific cleanup levels identified in, or to be identified in accordance with, the Work Plan were reached.

Additionally, the Department hereby reserves all of its rights concerning, and any such release, covenant not to sue, and forbearance shall not extend to:

- Volunteer if, after the Effective Date of the Agreement, Volunteer causes a, or suffers the, release or threat of release, at the Site of any hazardous substance (as that term is defined at 42 USC 9601[14]) or petroleum (as that term is defined in Navigation Law § 172[15]), other than Covered Contamination; or if Volunteer causes a, or suffers the use of the Site to, change from the Contemplated Use to one requiring a lower level of residual contamination before that use can be implemented with sufficient protection of human health and the environment; nor to
- any of Volunteer's lessees, sublessees, successors, or assigns who cause a, or suffer the, release or threat of release, at the Site of any hazardous substance (as that term is defined at 42 USC 9601[14]) or petroleum (as that term is defined in Navigation Law § 172[15]), other than Covered Contamination, after the effective date of the Agreement; who cause a, or suffer the use of the Site to, change from the Contemplated Use to one requiring a lower level of residual contamination before that use can be implemented with sufficient protection of human health and the environment; or who is otherwise a party responsible under law for the remediation of the Existing Contamination independent of any obligation that party may have respecting same established resulting solely from the Agreement's execution.

Notwithstanding the above, however, with respect to any claim or cause of action asserted by the Department, the one seeking the benefit of this release, covenant not to sue, and forbearance shall bear the burden of proving that the claim or cause of action, or any part thereof, is attributable solely to Covered Contamination.

Notwithstanding any other provision in this release, covenant not to sue, and forbearance,

- if with respect to the Site there exists or may exist a claim of any kind or nature on the part of the New York State Environmental Protection and Spill Compensation Fund against any third party, nothing in this release shall be construed, or deemed, to preclude the State of New York from recovering such claim.
- except as provided in Subparagraph I.F of the Agreement and in this letter, nothing contained in the Agreement or in this letter shall be construed as barring, diminishing, adjudicating, or in any way affecting any of the Department's rights (including, but not limited to, nor exemplified by, the right to recover natural resources damages) with respect to any party, including Volunteer.
- nothing contained in this letter shall prejudice any rights of the Department to take any investigatory or remedial action it may deem necessary if Volunteer fails to comply with the Agreement or if contamination other than Existing Contamination or Covered Contamination is encountered at the Site.
- nothing contained in this letter shall be construed to prohibit the Commissioner or his duly authorized representative from exercising any summary abatement powers.
- nothing contained in this letter shall be construed to affect the Department's right to terminate the Agreement at any time during its implementation if Volunteer fails to comply substantially with the Agreement's terms and conditions.

In conclusion, the Department is pleased to be part of this effort to return the Site to productive use of benefit to the entire community.

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL
CONSERVATION

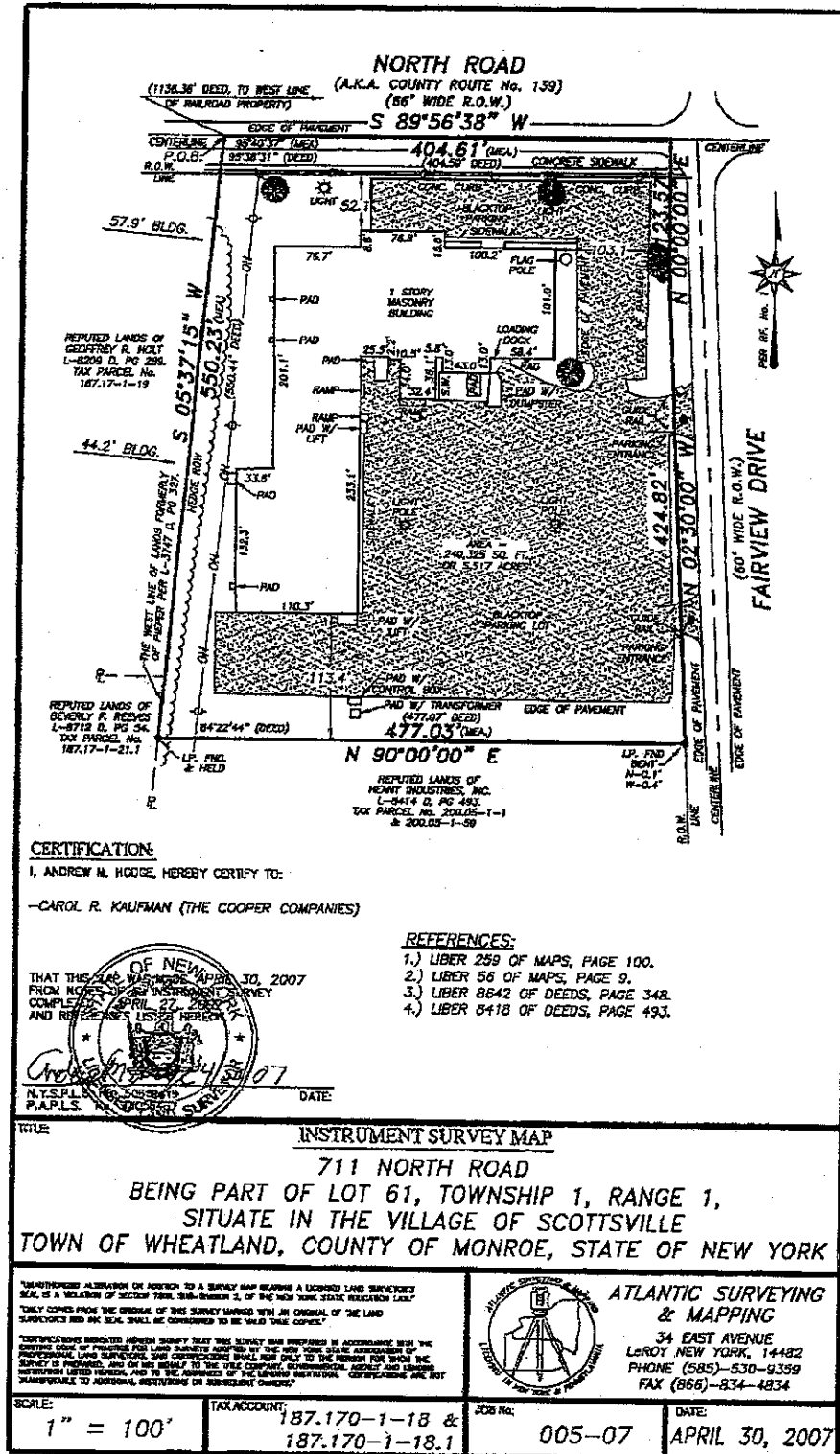
By: Benny A. Eck

Its: Bureau Chief, Bureau of
Remediation + Revitalization

Appendix "A"

Map of the Site

APPENDIX A



New York State Department of Environmental Conservation
Division of Environmental Remediation, Region 8
6274 East Avon-Lima Road, Avon, New York 14414-9519
Phone: (585) 226-5353 • Fax: (585) 226-8139
Website: www.dec.ny.gov



Peter M. Iwanowicz
Acting Commissioner

December 9, 2010

Mr. Christopher H. Marraro, Esq.
Howrey, LLP
1299 Pennsylvania Avenue, NW
Washington, DC 20004-2402

Dear Mr. Marraro:

**Re: CooperVision Site #V00175-8
Site Management
Village of Scottsville, Monroe County**

On November 29, 2010, the New York State Department of Environmental Conservation (NYSDEC) issued the release and covenant not to sue (the Release) for the above-referenced CooperVision site. By issuing of the Release NYSDEC also approves the June 16, 2010 Revised Final Engineering Report (FER), which includes the April 2002 Preliminary Report on Remediation Activities (the Preliminary Report), and the June 16, 2010 Revised Site Management Plan (SMP). Please begin implementing all elements of the SMP immediately.

By **January 10, 2011**, please submit to my attention one additional hardcopy of the FER and SMP for the document repository at the library. I do not need another copy of the Preliminary Report.

Per the SMP, groundwater monitoring will be performed in April and October of each year and Periodic Review Reports (PRR) and EC/IC certifications will be submitted every year beginning one year after CooperVision receives the Release. NYSDEC requests that the PRR include the April and October groundwater results along with the required data evaluations. To allow sufficient time to complete these tasks, NYSDEC is establishing an annual due date of January 31 for the PRRs and EC/IC certifications, with the first due on **January 31, 2012**. NYSDEC currently sends a reminder notice to the certifying party approximately 45-days before a PRR is due. The notice will be sent to Mr. Marraro, but a new contact person can be established upon written request.

Thank you for your cooperation in this matter and please contact me at (585) 226-5357 if you have any questions.

Sincerely,

Frank Sowers, P.E.
Environmental Engineer 2

e.c
Bart Putzig
Jim Charles

Julia Kenney

Jeff Kosmala

Vince Dick (Haley & Aldrich)

Claire Mondello (Haley & Aldrich)

Mark Ramsdell (Haley & Aldrich)

Tarun Patel (CooperVision)

APPENDIX D

Monitoring Well Installation Report



OBSERVATION WELL INSTALLATION REPORT

Well No.
OWS-302S

Boring No.

PROJECT	Monitoring Well Decommissioning/Replacement	H&A FILE NO.	70665-016
LOCATION	CooperVision, Inc., Scottsville, New York	PROJECT MGR.	M. Ramsdell
CLIENT	CooperVision, Inc.	FIELD REP.	D. Nostrant
CONTRACTOR	Nothnagle Drilling	DATE INSTALLED	3/31/2010
DRILLER	S. Loranty	WATER LEVEL	17.57

Ground El.	_____ ft	Location	5 feet of abandoned well cluster	☐ Guard Pipe
El. Datum	_____	OWS-302	_____	☒ Roadway Box

SOIL/ROCK CONDITIONS	BOREHOLE BACKFILL	Type of protective cover/lock _____ Bolted Steel												
NOT OBSERVED	CEMENT- BENTONITE GROUT	Height of top of guard pipe/roadway box above ground surface	0.0 ft											
		Height of top of riser pipe above ground surface	0.3 ft											
		Type of protective casing: _____ Flushmount Road Box												
		Length _____ 1.0 ft	Inside Diameter _____ 8.000 in											
	BENTONITE	Depth of bottom of guard pipe/roadway box _____ ft												
		<table><tr><td>Type of Seals</td><td>Top of Seal (ft)</td><td>Thickness (ft)</td></tr><tr><td>Concrete</td><td>0.1</td><td>0.9</td></tr><tr><td>Bentonite Seal</td><td>9.0</td><td>2.0</td></tr><tr><td>_____</td><td>_____</td><td>_____</td></tr></table>		Type of Seals	Top of Seal (ft)	Thickness (ft)	Concrete	0.1	0.9	Bentonite Seal	9.0	2.0	_____	_____
	Type of Seals	Top of Seal (ft)	Thickness (ft)											
	Concrete	0.1	0.9											
	Bentonite Seal	9.0	2.0											
	_____	_____	_____											
MORIE NO. 00N SILICA SAND	Type of riser pipe: _____ PVC	Inside diameter of riser pipe _____ 2.0 in												
		Type of backfill around riser _____ See Diagram												
	Diameter of borehole _____ 8.0 + - in													
	Depth to top of well screen _____ 13.0 ft													
	Type of screen _____ Slotted PVC	Screen gauge or size of openings _____ 0.010 in												
	Diameter of screen _____ 2.0 in	Type of backfill around screen _____ Morie No. 00N Silica Sand												
Depth of bottom of well screen _____ 17.8 ft														
Bottom of Silt trap _____ 18.0 ft														
Depth of bottom of borehole _____ 18.0 ft														

(Bottom of Exploration)
(Numbers refer to depth from ground surface in feet)

(Not to Scale)

_____ ft	+	_____ ft	+	_____ ft	=	_____ ft
Riser Pay Length (L1)		Length of screen (L2)		Length of silt trap (L3)		Pay length

COMMENTS: _____

APPENDIX E

Waste Documentation

Haley & Aldrich of New York
200 Town Centre Drive
Suite 2
Rochester, NY 14623-4264



Tel: 585.359.9000
Fax: 585.359.4650
HaleyAldrich.com

26 April 2010
File No. 70665-016

New York State Department of Environmental Conservation
Division of Solid and Hazardous Materials
Bureau of Hazardous and Radiation Management
625 Broadway
Albany, NY 12233-7258

Attention: Mr. Henry Wilkie

Subject: "Contained-In" Determination Request
CooperVision, Inc.
711 North Road
Scottsville, New York
VCA# V00157-8

Dear Mr. Wilkie:

On behalf of our client, CooperVision, Inc. (CooperVision), Haley & Aldrich of New York (Haley & Aldrich) is hereby requesting a "Contained-In" determination for the investigation-derived waste (drums of soil) described below. This request is being submitted in accordance with the New York State Department of Environmental Conservation's (NYSDECs) Technical Administrative Guidance Memorandum (TAGM) 3028 and on behalf of CooperVision, the owner of the subject property. The work (groundwater well installation) during which the drums of soil were generated was conducted in accordance with a Remedial Voluntary Cleanup Agreement (VCA) between the NYSDEC and CooperVision dated 31 May 2001 and correspondence with the NYSDEC dated 26 March 2010. CooperVision currently operates the above-referenced facility ("the Site") for contact lens manufacturing. Historically, 1,1,1-trichloroethane (1,1,1-TCA) was used onsite, which resulted in contamination of the onsite groundwater. 1,1,1-TCA no longer used onsite. CooperVision is currently in the process of voluntarily remediating the Site under the VCA.

There are currently four drums onsite that contain soil from the closure of nested wells OWS-302S & OWS-302D, and the re-installation of new well OWS-302S. One composite sample from the four soil drums was collected and analyzed for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), and RCRA metals on 31 March 2010 to facilitate the disposal process (see attached). 1,1-Dichloroethane (1,1-DCA) was detected in the sample at 1.28 mg/kg, and acetone was detected at 0.778 mg/kg. Arsenic, barium, chromium, lead and mercury were also detected at low concentrations. The laboratory data is attached to this request.

The results appear to be less than the respective "soil/sediment Action level" concentrations in TAGM 3028. Upon receipt of your written approval, the drums of soil described above will be disposed at EQ Detroit, Inc. (The Environmental Quality Company), located in Detroit, Michigan.

New York State Department of Environmental Conservation
26 April 2010
Page 2

If you require any additional information please do not hesitate to contact me at 585-321-4262 or via e-mail, MRamsdell@HaleyAldrich.com.

Sincerely yours,
HALEY & ALDRICH OF NEW YORK



Mark N. Ramsdell, P.E.
Project Manager

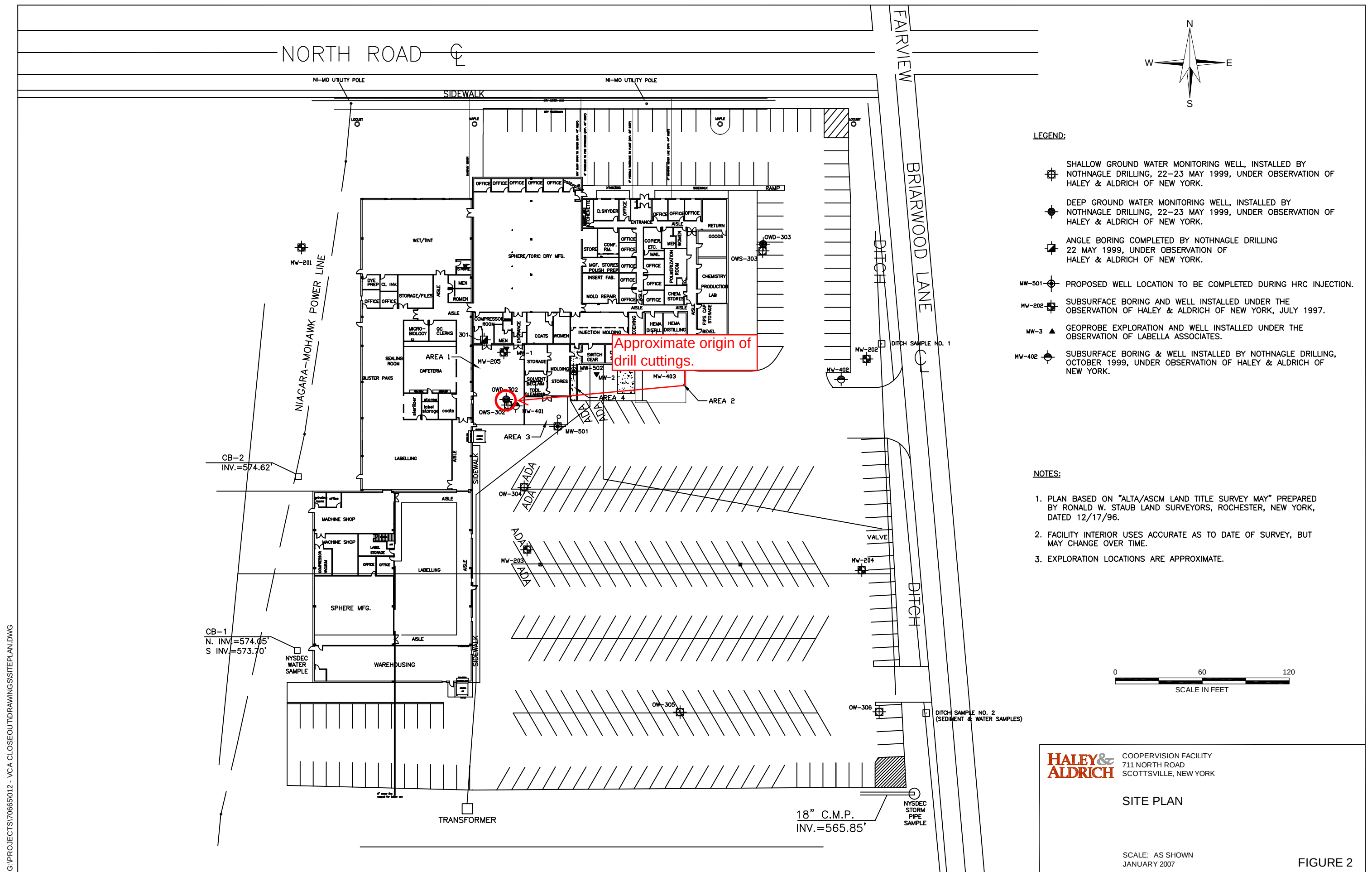


Vincent B. Dick
Vice President

Attachments

c: NYSDEC Region 8, Frank Sowers, P.E.
CooperVision, Inc.; Bernie Hallatt
CooperVision, Inc.; Denis Snyder
Howrey LLP; Christopher Marraro, Esq.

G:\Projects\70665\016 - Groundwater - 2009-10\OWS-302 replacement\Drum Removal\2010_0426_Contained-in request_F.doc





PARADIGM
ENVIRONMENTAL SERVICES, INC.

Analytical Report Cover Page

Haley & Aldrich

For Lab Project # 10-1326

Issued April 19, 2010

This report contains a total of 5 pages

The reported results relate only to the samples as they have been received by the laboratory.

Any noncompliant QC parameters having impact on the data are flagged or documented on the final report.

All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Each page of this document is part of a multipage report. This document may not be reproduced except in its entirety, without the prior consent of Paradigm Environmental Services, Inc.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of frequently used data flags and their meaning:

"ND" = analyzed for but not detected.

"E" = Result has been estimated, calibration limit exceeded.

"D" = Duplicate results outside QC limits. May indicate a non-homogenous matrix.

"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.

"B" = Method blank contained trace levels of analyte. Refer to included method blank report.



Client: Haley & Aldrich of NY

Lab Project No.: 10-1326

Lab Sample No.: 4975

Client Job Site: Coopervision 70665-016

Sample Type: Soil

Client Job No.: N/A

Field Location: Drum Comp

Date Sampled: 03/31/2010

Field ID No.: N/A

Date Received: 04/05/2010

Laboratory Report for Solid Waste Analysis

Parameter	Date Analyzed	Analytical Method	Result (mg/kg)
Arsenic	04/09/2010	SW846 6010	3.74
Barium	04/09/2010	SW846 6010	60.9
Cadmium	04/09/2010	SW846 6010	<0.523
Chromium	04/09/2010	SW846 6010	10.8
Lead	04/09/2010	SW846 6010	8.76
Mercury	04/09/2010	SW846 7471	0.0084
Selenium	04/19/2010	SW846 6010	<0.523
Silver	04/09/2010	SW846 6010	<1.05

ELAP ID No.:10958

Comments:

Approved By: _____

Bruce Hoogesteger, Technical Director

Semi-Volatile Analysis Report for Soils/Solids/Sludges

Client: Haley & Aldrich of NY
Client Job Site: Coopervision 70665-016

Lab Project Number: 10-1326

Lab Sample Number: 4975

Client Job Number: N/A

Field Location: Drum Comp

Date Sampled: 03/31/2010

Field ID Number: N/A

Date Received: 04/01/2010

Sample Type: Soil

Date Analyzed: 04/07/2010

Base / Neutrals	Results in ug / Kg	Base / Neutrals	Results in ug / Kg
Acenaphthene	ND< 324	Dibenz (a,h) anthracene	ND< 324
Anthracene	ND< 324	Fluoranthene	ND< 324
Benzo (a) anthracene	ND< 324	Fluorene	ND< 324
Benzo (a) pyrene	ND< 324	Indeno (1,2,3-cd) pyrene	ND< 324
Benzo (b) fluoranthene	ND< 324	Naphthalene	ND< 324
Benzo (g,h,i) perylene	ND< 324	Phenanthrene	ND< 324
Benzo (k) fluoranthene	ND< 324	Pyrene	ND< 324
Chrysene	ND< 324	Acenaphthylene	ND< 324
Diethyl phthalate	ND< 324	1,2-Dichlorobenzene	ND< 324
Dimethyl phthalate	ND< 811	1,3-Dichlorobenzene	ND< 324
Butylbenzylphthalate	ND< 324	1,4-Dichlorobenzene	ND< 324
Di-n-butyl phthalate	ND< 324	1,2,4-Trichlorobenzene	ND< 324
Di-n-octylphthalate	ND< 324	Nitrobenzene	ND< 324
Bis (2-ethylhexyl) phthalate	ND< 324	2,4-Dinitrotoluene	ND< 324
2-Chloronaphthalene	ND< 324	2,6-Dinitrotoluene	ND< 324
Hexachlorobenzene	ND< 324	Bis (2-chloroethyl) ether	ND< 324
Hexachloroethane	ND< 324	Bis (2-chloroisopropyl) ether	ND< 324
Hexachlorocyclopentadiene	ND< 324	Bis (2-chloroethoxy) methan	ND< 324
Hexachlorobutadiene	ND< 324	4-Bromophenyl phenyl ether	ND< 324
N-Nitroso-di-n-propylamine	ND< 324	4-Chlorophenyl phenyl ether	ND< 324
N-Nitrosodiphenylamine	ND< 324	Benzidine	ND< 811
N-Nitrosodimethylamine	ND< 324	3,3'-Dichlorobenzidine	ND< 324
Isophorone	ND< 324	4-Chloroaniline	ND< 324
Benzyl alcohol	ND< 811	2-Nitroaniline	ND< 811
Dibenzofuran	ND< 324	3-Nitroaniline	ND< 811
2-Methylnaphthalene	ND< 324	4-Nitroaniline	ND< 811

Acids	Results in ug / Kg	Acids	Results in ug / Kg
Phenol	ND< 324	2-Methylphenol	ND< 324
2-Chlorophenol	ND< 324	3&4-Methylphenol	ND< 324
2,4-Dichlorophenol	ND< 324	2,4-Dimethylphenol	ND< 324
2,6-Dichlorophenol	ND< 324	2-Nitrophenol	ND< 324
2,4,5-Trichlorophenol	ND< 811	4-Nitrophenol	ND< 811
2,4,6-Trichlorophenol	ND< 324	2,4-Dinitrophenol	ND< 811
Pentachlorophenol	ND< 811	4,6-Dinitro-2-methylphenol	ND< 811
4-Chloro-3-methylphenol	ND< 324	Benzoic acid	ND< 811

ELAP Number 10958

Method: EPA 8270C

Data File: S50449.D

Comments: ND denotes Non Detect

ug / Kg = microgram per Kilogram

Signature:


 Bruce Hoogesteger: Technical Director

Volatile Analysis Report for Soils/Solids/Sludges

Client: Haley & Aldrich of NY

Client Job Site: Coopervision 70665-016

Lab Project Number: 10-1326

Lab Sample Number: 4975

Client Job Number: N/A

Field Location: Drum Comp

Date Sampled: 03/31/2010

Field ID Number: N/A

Date Received: 04/01/2010

Sample Type: Soil

Date Analyzed: 04/09/2010

Halocarbons	Results in ug / Kg
Bromodichloromethane	ND< 133
Bromomethane	ND< 133
Bromoform	ND< 332
Carbon Tetrachloride	ND< 332
Chloroethane	ND< 133
Chloromethane	ND< 133
2-Chloroethyl vinyl Ether	ND< 663
Chloroform	ND< 133
Dibromochloromethane	ND< 133
1,1-Dichloroethane	1,280
1,2-Dichloroethane	ND< 133
1,1-Dichloroethene	ND< 133
cis-1,2-Dichloroethene	ND< 133
trans-1,2-Dichloroethene	ND< 133
1,2-Dichloropropane	ND< 133
cis-1,3-Dichloropropene	ND< 133
trans-1,3-Dichloropropene	ND< 133
Methylene chloride	ND< 332
1,1,2,2-Tetrachloroethane	ND< 133
Tetrachloroethene	ND< 133
1,1,1-Trichloroethane	ND< 133
1,1,2-Trichloroethane	ND< 133
Trichloroethene	ND< 133
Trichlorofluoromethane	ND< 133
Vinyl chloride	ND< 133

Aromatics	Results in ug / Kg
Benzene	ND< 133
Chlorobenzene	ND< 133
Ethylbenzene	ND< 133
Toluene	ND< 133
m,p-Xylene	ND< 133
o-Xylene	ND< 133
Styrene	ND< 332
1,2-Dichlorobenzene	ND< 332
1,3-Dichlorobenzene	ND< 332
1,4-Dichlorobenzene	ND< 133

Ketones	Results in ug / Kg
Acetone	778
2-Butanone	ND< 663
2-Hexanone	ND< 332
4-Methyl-2-pentanone	ND< 332

Miscellaneous	Results in ug / Kg
Carbon disulfide	ND< 133
Vinyl acetate	ND< 332

ELAP Number 10958

Method: EPA 8260B

Data File: V74282.D

Comments: ND denotes Non Detect
ug / Kg = microgram per Kilogram

Signature: _____

Bruce Hoogesteger, Technical Director

CHAIN OF CUSTODY

REPORT TO:

INVOICE TO:

 PROJECT NAME/SITE NAME:
 COOPERATION
 70665-016

COMPANY: HALEY & WILDRICH OF NY	COMPANY: Same	LAB PROJECT #:	CLIENT PROJECT #:
ADDRESS: 200 Town Centre Dr	ADDRESS:	10-1326	
CITY: Rochester, NY	CITY:	STATE:	ZIP:
PHONE: 585	PHONE:	FAX:	TURNAROUND TIME: (WORKING DAYS)
ATTN: M. RANDALL	ATTN:	1	2
COMMENTS:	REQUESTED ANALYSIS	3	5
		Quotation #	STD OTHER

DATE	TIME	COMPOSITE	GRADES	SAMPLE LOCATION/FIELD ID	MATERIALS	CONTAMINANTS	TESTS	REMARKS	PARADIGM LAB SAMPLE NUMBER
10/31/10	1230	X		Drum Comp	Soil	X	X		4975
2									
3									
4									
5									
6									
7									
8									
9									
10									

LAB USE ONLY BELOW THIS LINE

Sample Condition: Per NELAC/LAP 210/241/242/243/244

Receipt Parameter	NELAC Compliance
Container Type:	Y ☒ N ☐
Comments:	
Preservation:	Y ☐ N ☐
Comments:	
Holding Time:	Y ☒ N ☐
Comments:	
Temperature:	Y ☐ N ☒
Comments:	

Sampled By	Date/Time	Total Cost:
Received By	Date/Time	
Relinquished By	Date/Time	
Received @ Lab By	Date/Time	

New York State Department of Environmental Conservation

Division of Solid & Hazardous Materials

Bureau of Hazardous Waste & Radiation Management, 9th Floor

625 Broadway, Albany, New York 12233-7258

Phone: (518) 402-8594 • Fax: (518) 402-9024

Website: www.dec.ny.gov



Alexander B. Grannis
Commissioner

May 3, 2010

Mr. Mark N. Ramsdell, P.E.
Project Manager
Haley & Aldrich, Inc.
200 Town Centre Drive, Suite 2
Rochester, NY 14623-4264

H&A OF NY

MAY 03 2010

RECEIVED

Dear Mr. Ramsdell:

Re: Contained-In Determination
CooperVision, Inc., 711 North Road, Scottsville, New York
Site # V00157-8

We have completed our review of the soil sampling data submitted with your April 26 request for a contained-in determination for the referenced project.

Concentrations detected for individual VOCs were all significantly less than their current contained-in soil action levels and land disposal restriction (LDR) concentrations. Concentration for 1,1,1-trichloroethane (1,1,1-TCA) was below the soil contained-in action level and the LDR concentration. Therefore, the four drums containing soil generated from the closure of nested wells OWS-302S and OWS302D, and the reinstallation of a new well OWS-302S at the CooperVision site do not have to be managed as hazardous waste and can be transported off-site to EQ Detroit, Inc. (the environmental quality company), located in Detroit, Michigan.

Should you have any questions regarding the content of this letter, please do not hesitate to contact me at (518) 402-8594, or e-mail me at hjwilkie@gw.dec.state.ny.us.

Sincerely,

Henry Wilkie

Environmental Engineer 1

Hazardous Waste Engineering Eastern Section

Bureau of Hazardous Waste & Radiation Management

Division of Solid & Hazardous Materials

ecc: F. Sowers, Region 8

NON-HAZARDOUS WASTE MANIFEST		1. Generator ID Number NY D 0 7 3 6 8 8 2 7 9	2. Page 1 of 1	3. Emergency Response Phone 585-985-6811	4. Waste Tracking Number 05192010
5. Generator's Name and Mailing Address Cooper Vision 711 North Road Scottsville NY 14546			Generator's Site Address (if different than mailing address)		
Generator's Phone: 585 985-6811					
6. Transporter 1 Company Name Freehold Cartage, Inc.				U.S. EPA ID Number N J D 0 5 4 1 2 6 1 6 4	
7. Transporter 2 Company Name				U.S. EPA ID Number	
8. Designated Facility Name and Site Address EQ Leach, Inc. 1923 Frederick Street Detroit MI 48211				U.S. EPA ID Number M I D 9 8 0 9 9 1 5 6 6	
Facility's Phone: 313 923-0020					
9. Waste Shipping Name and Description		10. Containers		11. Total Quantity	12. Unit WL/Vol.
		No.	Type		
1. USDOT Non-Regulated, Non-Hazardous Drill Cuttings/Soil		4	DM	220	Wt
2.					
3.					
4.					
13. Special Handling Instructions and Additional Information 1. I081044DET, 55Gal. Plate# 16-38054 ME Conf.# 253822					
14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.					
Generator's/Officer's Printed/Typed Name TARUN PATEL		Signature <i>[Signature]</i>		Month Day Year 05 11 10	
15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: Date leaving U.S.:					
16. Transporter Acknowledgment of Receipt of Materials					
Transporter 1 Printed/Typed Name NELSON ANDERSON		Signature <i>[Signature]</i>		Month Day Year 5 19 10	
Transporter 2 Printed/Typed Name		Signature		Month Day Year	
17. Discrepancy					
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection					
Manifest Reference Number:					
17b. Alternate Facility (or Generator)				U.S. EPA ID Number	
Facility's Phone:					
17c. Signature of Alternate Facility (or Generator)				Month Day Year	
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a					
Printed/Typed Name		Signature		Month Day Year	

**FREEHOLD CARTAGE INC.**P.O. BOX 5010 • FREEHOLD, NJ 07728-5010
(732) 462-1001 • FAX (732) 308-0924**BILL OF LADING**
FCI EPA ID NO. NJD054126164**M 97544**114 Schoolground Rd.
Branford, CT 06405
Phone: (203) 483-5964
Fax: (203) 483-5984350 Pigeon Point Road
New Castle, DE 19720
Phone: (302) 658-2005
Fax: (302) 658-6229175 Bartow Mun. Airport
Bartow, FL 33830
Phone: (863) 533-4599
Fax: (863) 533-16135533 Dunham Road
Maple Heights, OH 44137
Phone: (330) 835-3473
Fax: (330) 835-3732108 Monahan Avenue
Dunmore, PA 18512
Phone: (570) 342-7232
Fax: (570) 342-7367132 Myrtle Beach Hwy.
Sumter, SC 29153
Phone: (803) 773-2611
Fax: (803) 773-2942

SHIPPER NAME/ADDRESS COOPER VISION 711 NORTH ROAD SCOTTSVILLE NY 14546		PHONE (716) 327-5515 (AREA CODE) TRACTOR 794 TRAILER 4485		APPOINTMENT TIME 11:00	
FCI REP. LOADING (PRINT) ANDERSON HERBERT	PROCEDURE 1/4	EQUIP. SPOTTED 0	EQUIP. REMOVED 0	TIME AT SHIPPER ARRIVAL TIME DEPARTURE TIME	(MILITARY TIME ONLY)
COMMENTS OR DELAYS AT SHIPPER				EQUIPMENT USED	

BROKER: 2ADV17 ADVANCED WASTE SOLUTIONS INC		MANIFEST/DOCUMENT NO. 05192010								
PO#: NONE	WO#: 178934.03									
(X) NM	PROPER U.S. D.O.T. SHIPPING NAME	U.S. D.O.T. HAZARDOUS CLASS	NA/UN/NO.	PACKING GROUP	NO. CONT.	CONT. TYPE	NET QUANTITY	UNIT MEASURE	WASTE NO.	FORM
1	See Manifest				4	3M	220	G		
2										
3										

SPECIAL HANDLING INSTRUCTIONS INCLUDING CONTAINER EXEMPTION NUMBER.	
SHIPPER'S CERTIFICATION: This is to certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation, U.S. EPA and the State. The materials described above were consigned to the Transporter named. The consignee can and will accept the shipment and has a valid permit to do so if required. I certify that the foregoing is true and correct to the best of my knowledge.	
Payment to the contractor for waste removal does not constitute payment to the carrier and if the contractor does not pay the carrier, the shipper is obligated to pay the agreed rate offered to the contractor.	
PLEASE PRINT NAME/TITLE TARUN PATEL/SR. ENGG MGR	SHIPPER'S SIGNATURE X [Signature] I HAVE READ THE ABOVE AND UNDERSTAND AND AGREE TO ALL OF ITS CONTENT.
DATE LOADED 05/19/2010 MO. DAY YR.	

CONSIGNEE NAME/ADDRESS DELIANT, INC 1923 FREDERICK STREET DETROIT MI 48211		PHONE 313 923-0080 (AREA CODE) TRACTOR 794 TRAILER 4485		APPOINTMENT TIME 15:30	
FCI REP. LOADING (PRINT) HERBERT	PROCEDURE	EQUIP. SPOTTED	EQUIP. REMOVED	TIME AT CONSIGNEE ARRIVAL TIME DEPARTURE TIME	(MILITARY TIME ONLY)
COMMENTS OR DELAYS AT CONSIGNEE				EQUIPMENT USED	
PLEASE PRINT NAME/TITLE		CONSIGNEE SIGNATURE X _____		DATE UNLOADED 05/20/2010 MO. DAY YR.	

AR H-0257	MD HWH-167	MO H-1490	OH UPW-0190713-OH	TX 40705
CT CT-HW-307	2001-OPV-2335	ND WH-429	OK UPW-0190713-OH	WI 11602
DE DE-HW-203	ME ME-HWT-47	NH TNH-0047	ONTARIO, CANADA A 840943	WV UPW-0190713-OH
DE-SW-203	ME-WOT-47	NJ S-2265	PA PA-AH-0067	
IL UPW-0190713-OH	MI UPW-0190713-OH	15939	QUEBEC, CANADA QC-6ML-047	
MA MA-294	MN UPW-0190713-OH	NY NJ-113	RI RI-535	

White - FCI Original Blue - FCI Office/Customer Gold - Retained by Generator
Yellow - FCI Billing Green - Retained by TSDF**M 97544**

APPENDIX F

SSD System Maintenance and Monitoring Documentation

While performing the Sub-Slab depressurization PM on 7-21-2010 Duane Pierson found that there was no readings on test port # 6 located in the Micro Bio Lab. After trouble shooting that system we found that the roof fan was burnt out. I contacted Claire Mondello from The Haley & Aldrich Company to get a new fan. She then contacted Nick from Mitigation Technology. Nick called John Hogan and he was given the part # for the fan. On 8-2-2010 Nick had one of his guys drop the fan off at Coopervision. Bernard Krisanda a Coopervision Maintenance Tech installed the new fan on 8-3-2010. Then fan was started and the ready was taken it was 3.7 inches of water. No further action was needed. All records of this event are attached.

John Hogan
Coopervision
711 North Road
Scottsville, NY 14546
Manager Facilities & Maintenance
585-264-3226
jhogan@coopervision.com

John Hogan

From: Mondello, Claire [CMondello@haleyaldrich.com]
Sent: Friday, July 30, 2010 8:16 AM
To: John Hogan
Subject: RE: Roof fan

I called the Mitigation Tech office and left them a message. The office number is: (585) 637-7430. I told them to either call me or you back with information regarding the fan. I'll keep you posted.

- Claire

Claire L. Mondello
Staff Environmental Scientist
Haley & Aldrich
Tel. 585.321.4219

From: John Hogan [mailto:jhogan@coopervision.com]
Sent: Friday, July 30, 2010 7:20 AM
To: Mondello, Claire
Subject: Roof fan

Claire, Nick called me Tuesday and said he had one of those fans in stock and he would get it over to me. I don't have his number and I haven't received the fan yet. Can you help?

John Hogan
Coopervision
711 North Road
Scottsville, NY 14546
Manager Facilities & Maintenance
585-264-3226
jhogan@coopervision.com

8/3/2010

John Hogan

From: John Hogan
Sent: Friday, July 30, 2010 7:20 AM
To: cdebergalis@HaleyAldrich.com
Subject: Roof fan

Claire, Nick called me Tuesday and said he had one of those fans in stock and he would get it over to me. I don't have his number and I haven't received the fan yet. Can you help?

John Hogan
Coopervision
711 North Road
Scottsville, NY 14546
Manager Facilities & Maintenance
585-264-3226
jhogan@coopervision.com

8/3/2010

Maintenance Form

Work Order Number 25850
Date Enacted 7/26/2010

Due Date: 7/28/2010

System ID: PM
Component ID: SUB-SLAB
Equipment Type: Sub-Slab Depressurization System
Description: Sub-Slab Depressurization System
Serial Number:

Scheduled Person: *Duane Pierson*
Event Name: Weekly
Department: Plant
Location: All Locations
Contact Person: John Hogan

Procedure to Reference: 142-X-30

Information on Form: The purpose of this procedure is to maintain the Sub-Slab depressurization system at CooperVision in Scottsville, NY by making sure roof fans are always running.

Estimated Time: *45 min.*

Estimated Cost:

Parts Used:

Remarks:

*Procedure completed per S.O.P 142-X-30
7-28-10*

MS

[illegible]

Maintenance Form

Work Order Number 25789
Date Enacted 7/20/2010

Due Date: 7/21/2010

System ID: PM
Component ID: SUB-SLAB
Equipment Type: Sub-Slab Depressurization System
Description: Sub-Slab Depressurization System
Serial Number:

Scheduled Person: *Duane Pierson*
Event Name: Weekly
Department: Plant
Location: All Locations
Contact Person: John Hogan

Procedure to Reference: 142-X-30

Information on Form: The purpose of this procedure is to maintain the Sub-Slab depressurization system at CooperVision in Scottsville, NY by making sure roof fans are always running.

Estimated Time: *45 min.*

Estimated Cost:

Parts Used:

Remarks:

*Procedure completed per S.O.P 142-X-30
7-21-10*

mg

1.3 ELECTRICAL WIRING

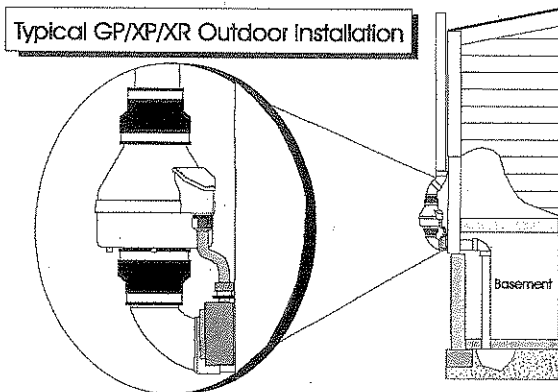
The GP/XP/XR Series Fans operate on standard 120V 60 Hz. AC. All wiring must be performed in accordance with the National Fire Protection Association's (NFPA) National Electrical Code, Standard #70 - current edition for all commercial and industrial work, and state and local building codes. All wiring must be performed by a qualified and licensed electrician. Outdoor installations require the use of a U.L. listed watertight conduit. Ensure that all exterior electrical boxes are outdoor rated and properly sealed to prevent water penetration into the box. A means, such as a weep hole, is recommended to drain the box.

1.9 SPEED CONTROLS

The GP/XP/XR Series Fans are rated for use with electronic speed controls, however, they are generally not recommended.

2.0 INSTALLATION

The GP/XP/XR Series Fan can be mounted indoors or outdoors. (It is suggested that EPA recommendations be followed in choosing the fan location.) The GP/XP/XR Series Fan may be mounted directly on the system piping or fastened to a supporting structure by means of optional mounting bracket.



Page 4 of 8

IN014 Rev G

XP/XR SERIES PRODUCT SPECIFICATIONS

The following chart shows fan performance for the XP & XR Series Fans:

	Typical CFM Vs Static Suction "WC									
	0"	.25"	.5"	.75"	1.0"	1.25"	1.5"	1.75"	2.0"	
XP101	125	118	90	56	5	-	-	-	-	
XP151	180	162	140	117	78	46	19	-	-	
XP201	130	130	110	93	74	57	38	20	-	
XR261	250	215	185	150	115	80	50	20	-	

Maximum Recommended Operating Pressure*			
XP101	0.5" W.C.	(Sea Level Operation)**	
XP151	1.3" W.C.	(Sea Level Operation)**	
XP201	1.7" W.C.	(Sea Level Operation)**	
XR261	1.5" W.C.	(Sea Level Operation)**	

*Reduce by 10% for High Temperature Operation
**Reduce by 4% per 1000 feet of altitude

Power Consumption @ 120 VAC	
XP101	40 - 49 watts
XP151	45 - 60 watts
XP201	45 - 66 watts
XR261	65 - 105 watts

XP Series Inlet/Outlet: 4.5" OD (4.0" PVC Sched 40 size compatible)
XR Series Inlet/Outlet: 5.875" OD
Mounting: Mount on the duct pipe or with optional mounting bracket.
Recommended ducting: 3" or 4" Schedule 20/40 PVC Pipe
Storage temperature range: 32 - 100 degrees F.
Normal operating temperature range: -20 - 120 degrees F.
Maximum inlet air temperature: 80 degrees F.
Size: 9.5H" x 8.5" Dia. Weight: 6 lbs. (XR261 - 7 lbs)
Continuous Duty Thermally protected
Class B Insulation 3000 RPM
Residential Use Only Rated for Indoor or Outdoor use



2.1 MOUNTING

Mount the GP/XP/XR Series Fan vertically with outlet up. Insure the unit is plumb and level. When mounting directly on the system piping assure that the fan does not contact any building surface to avoid vibration noise.

2.2 MOUNTING BRACKET (optional)

The GP/XP/XR Series fan may be optionally secured with the integral mounting bracket on the GP Series fan or with RadonAway P/N 25007-2 mounting bracket for an XP/XR Series fan. Foam or rubber grommets may also be used between the bracket and mounting surface for vibration isolation.

2.3 SYSTEM PIPING

Complete piping run, using flexible couplings as means of disconnect for servicing the unit and vibration isolation.

2.4 ELECTRICAL CONNECTION

Connect wiring with wire nuts provided, observing proper connections (See Section 1.8):

Fan Wire	Connection
Green	Ground
Black	AC Hot
White	AC Common

2.5 VENT MUFFLER (optional)

Install the muffler assembly in the selected location in the outlet ducting. Solvent weld all connections. The muffler is normally installed at the end of the vent pipe.

2.6 OPERATION CHECKS

- Verify all connections are tight and leak-free.
- Insure the GP/XP/XR Series Fan and all ducting is secure and vibration-free.
- Verify system vacuum pressure with manometer. Insure vacuum pressure is less than maximum recommended operating pressure
(Based on sea-level operation, at higher altitudes reduce by about 4% per 1000 Feet.)
(Further reduce Maximum Operating Pressure by 10% for High Temperature environments)
See Product Specifications. If this is exceeded, increase the number of suction points.
- Verify Radon levels by testing to EPA protocol.

Page 5 of 8

IN014 Rev G

GP SERIES PRODUCT SPECIFICATIONS

The following chart shows fan performance for the GP Series Fan:

	Typical CFM Vs Static Suction "WC						
	1.0"	1.5"	2.0"	2.5"	3.0"	3.5"	4.0"
GP501	95	87	80	70	57	30	5
GP401	93	82	60	38	12	-	-
GP301	92	77	45	10	-	-	-
GP201	82	58	5	-	-	-	-

Maximum Recommended Operating Pressure*		
GP501	3.8" W.C.	(Sea Level Operation)**
GP401	3.0" W.C.	(Sea Level Operation)**
GP301	2.4" W.C.	(Sea Level Operation)**
GP201	1.8" W.C.	(Sea Level Operation)**

*Reduce by 10% for High Temperature Operation
**Reduce by 4% per 1000 feet of altitude

Power Consumption @ 120 VAC	
GP501	70 - 140 watts
GP401	60 - 110 watts
GP301	55 - 90 watts
GP201	40 - 60 watts

Inlet/Outlet: 3.5" OD (3.0" PVC Sched 40 size compatible)
Mounting: Fan may be mounted on the duct pipe or with integral flanges.
Weight: 12 lbs.
Size: 13H" x 12.5" x 12.5"
Recommended ducting: 3" or 4" Schedule 20/40 PVC Pipe
Storage temperature range: 32 - 100 degrees F.
Normal operating temperature range: -20 - 120 degrees F.
Maximum inlet air temperature: 80 degrees F.
Continuous Duty
Class B Insulation
3000 RPM
Thermally protected
Rated for Indoor or Outdoor Use



mitigation tech

vapor intrusion specialists

November 9, 2010

Mr. Mark Ramsdell, PE, CHMM
Project Manager / Senior Engineer
Haley & Aldrich of New York
20 Town Center Dr., Suite 200
Rochester, NY 14623
Via email: mr Ramsdell@HaleyAldrich.com

Re: Vapor Intrusion System Inspection
Coopervision -- Scottsville, NY

On October 19, 2010 we visited this location to perform an inspection of six Sub-slab Depressurization (SSD) Systems originally installed in 2006. One fan had been replaced by the owner in August 2010. We performed the following procedures and recorded the following observations:

1. Conduct a visual inspection of the complete SSD systems (e.g., vent fans, piping, vacuum gauges, labeling, etc.); **Observation : Acceptable**
2. Inspect all components for condition and proper operation; **Observation: Acceptable.**
3. Identify (and repair) any leaks in accordance with Sections 4.3.1(a) of the NYS DOH Guidance; **No leaks noted.**
4. Inspect the discharge points to verify that no air intakes have been located nearby; **Observation: No intakes.**
5. Interview the primary occupant of the premises seeking comments regarding the operation of the SSD system; **Interviewee had no concerns regarding the systems.**
6. Review on site record of system inspections **Observation : Acceptable**
7. Conduct pressure field extension testing at existing test points **Observation : Acceptable**
8. Test point data: (note: areas are named after local towns; shown in order of inspection)

Area	TP#	Value in -.000 wci
Brockport	17	.017
	16	.017
	12	.026
Fairport	14	.016
Spencerport	11	.982
	13	.007

November 9, 2010

Page 2

Receiving	10	.018
North Greece	09	+.038 (door open)
	09	.025 (door closed)
Greece	08	.010
Palmyra	07	.030
Newark	04	.020
Honeoye Fls	03	
Rochester	18	.004
	02	.014
	01	.008
Hilton	06	.066
	05	.053

System Stack Values (- 0.0 wci; system numbering per H&A drawing May 2010 labeled "Figure 5")

1	3.621
2	.506
3	1.590
4	2.105
5	3.581
6	(merged with 5)
7	1.513

Thank you.

Nicholas E. Mouganis EPA listing # 15415-I; NEHA ID# 100722

55 SHUMWAY ROAD, BROCKPORT, NEW YORK, 14420 * OFFICE/FAX 585-637-7430